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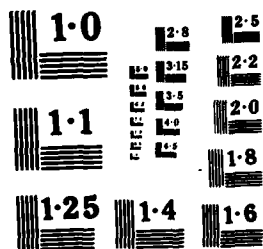
ALCONBURY RAF UNITED KINGDOM REVISED UNIFORM SUMMARY OF  
SURFACE WEATHER (O..U) AIR FORCE ENVIRONMENTAL  
TECHNICAL APPLICATIONS CENTER SCOTT A.. APR 84

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USAFETAC/DS-84/014

**DATA PROCESSING DIVISION  
USAFETAC  
Air Weather Service ( MAC )**

**REVISED UNIFORM SUMMARY OF  
SURFACE WEATHER OBSERVATIONS**

ALCONBURY RAF UK  
N 52 22 W 000 13

ELEV 160 FT

MSC #035621  
EGWZ

PARTS A-F

HOURS SUMMARIZED:

0000Z - 2300Z

**PERIOD OF RECORD:**

HOURLY OBSERVATIONS: JUN 73 - MAY 83

SUMMARY OF DAY DATA: SEP 55 - JAN 56, FEB 57 - MAY 83

TIME CONVERSION GMT TO LST: 0

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This technical report has been reviewed and is approved for publication.

*Wayne E. McCollom*

WAYNE E. MCCOLLOM  
Chief, Document Reference Section  
USAFETAC/LDX



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SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM															
1 REPORT NUMBER USAFETAC/DS-84/014	2 GOVT ACCESSION NO. AD-A46913	3 RECIPIENT'S CATALOG NUMBER															
4 TITLE (and Subtitle) Revised Uniform Summary of Surface Weather Observations (RUSSWO)- Alconbury RAF, United Kingdom		5 TYPE OF REPORT & PERIOD COVERED Final rept															
7 AUTHOR(s)		6 PERFORMING ORG. REPORT NUMBER															
9 PERFORMING ORGANIZATION NAME AND ADDRESS USAFETAC/OL-A Air Force Environmental Technical Appl. Center Scott AFB, IL 62225		8 CONTRACT OR GRANT NUMBER(s)															
11 CONTROLLING OFFICE NAME AND ADDRESS USAFETAC/CBD Air Weather Service (MAC) Scott AFB, IL 62225		10 PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS															
14 MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office)		12 REPORT DATE Apr 84															
		13 NUMBER OF PAGES 320															
		15 SECURITY CLASS. (of this report) UNCLASSIFIED															
		15a DECLASSIFICATION DOWNGRADING SCHEDULE															
16 DISTRIBUTION STATEMENT (of this Report)  Approved for public release; distribution unlimited.																	
17 DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)																	
18 SUPPLEMENTARY NOTES  SUPERSEDES REPT. NO. USAFETAC/DS-79/100, AD-A078 350, NOV 77.																	
19 KEY WORDS (Continue on reverse side if necessary and identify by block number) <table border="0"> <tr> <td>*RUSSWO</td> <td>Daily temperatures</td> <td>Atmospheric pressure</td> </tr> <tr> <td>Snowfall</td> <td>Extreme snow depth</td> <td>Extreme surface winds</td> </tr> <tr> <td>Climatology</td> <td>Sea-level pressure</td> <td>Psychrometric summary</td> </tr> <tr> <td>Surface Winds</td> <td>Extreme temperature</td> <td>Ceiling versus visibility</td> </tr> <tr> <td>Relative Humidity</td> <td>*Climatological data</td> <td>(over)</td> </tr> </table>			*RUSSWO	Daily temperatures	Atmospheric pressure	Snowfall	Extreme snow depth	Extreme surface winds	Climatology	Sea-level pressure	Psychrometric summary	Surface Winds	Extreme temperature	Ceiling versus visibility	Relative Humidity	*Climatological data	(over)
*RUSSWO	Daily temperatures	Atmospheric pressure															
Snowfall	Extreme snow depth	Extreme surface winds															
Climatology	Sea-level pressure	Psychrometric summary															
Surface Winds	Extreme temperature	Ceiling versus visibility															
Relative Humidity	*Climatological data	(over)															
20 ABSTRACT (Continue on reverse side if necessary and identify by block number) This report is a six-part statistical summary of surface weather observations for Alconbury RAF, United Kingdom.  It contains the following parts: (A) Weather Conditions; Atmospheric Phenomena; (B) Precipitation, Snowfall and Snow Depth (Daily amounts and extreme values); (C) Surface winds; (D) Ceiling versus Visibility; Sky Cover; (E) Psychrometric (over)																	

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19. Percentage frequency of distribution tables  
Dry-bulb temperature versus wet-bulb temperature  
Cumulative percentage frequency of distribution tables  
\*United Kingdom \*Alconbury RAF \*UK035621  
\*Alconbury \*Great Britain
  
20. Summaries (daily maximum and minimum temperatures, extreme maximum and minimum temperatures, psychrometric summary of wet-bulb temperature depression versus dry-bulb temperature, means and standard deviations of dry-bulb, wet-bulb and dew point temperatures and relative humidity); and (F) Pressure Summary (means, standard, deviations, and observation counts of station pressure and sea-level pressure). Data in this report are presented in tabular form, in most cases in percentage frequency of occurrence or cumulative percentage frequency of occurring tables.

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The number that identifies the station in this summary is an AWS Master Station Catalog number. This number is comprised of the WMO number with the addition of a suffix zero; or, in cases where there is no designated WMO number, a 5-digit number created in agreement with WMO rules, plus a sixth qualifying digit. These numbers (also referred to as DATSAV or USAFETAC numbers) uniquely identify each of more than 15,000 reporting stations around the world. This is the provenance of the number (e.g., MSC 999999) which will appear on future OL-A standard products.

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APPLICATIONS CENTER

## REVISED UNIFORM SUMMARY OF SURFACE WEATHER OBSERVATIONS

### HOURLY OBSERVATIONS

Hourly observations are defined as those record or record-special observations recorded at scheduled hourly intervals.

### DAILY OBSERVATIONS

Daily observations are selected from all data recorded on reporting forms and combined into Summary of the Day observations. (Selected from record-special, local, summary of the day, remarks, etc.)

### DESCRIPTION OF SUMMARIES

Appendix, each section is a brief description of the data comprising each part of the Revised Uniform Summary of Surface Weather Observations and the manner of presentation. Tabulations are prepared from hourly and daily observations recorded by stations operated by the U. S. Service and some foreign stations using similar reporting practices.

Other, if otherwise noted the following summaries are included for this station:

#### PART A WEATHER CONDITIONS

ATMOSPHERIC PHENOMENA

#### PART B PRECIPITATION

SNOWFALL

SNOW DEPTH

#### PART C SURFACE WINDS

#### PART D CEILING VERSUS VISIBILITY

SKYCOVER DATA NOT AVAILABLE

#### PART E DAILY MAX, MIN, & MEAN TEMP

EXTREME MAX & MIN TEMP

PSYCHROMETRIC DRY VS WET BULB

MEAN & STD DEV.  
(DRY BULB, WET BULB, & DEW POINT)

RELATIVE HUMIDITY

#### PART F STATION PRESSURE

SEA LEVEL PRESSURE DATA NOT AVAILABLE

### STANDARD 3-HOUR GROUPS

All summaries requiring diurnal variations are summarized in eight 3-hour periods corresponding to the following sets of hourly observations: 0000-0300, 0300-0600, 0600-0900, 0900-1200, 1200-1500, 1500-1800, 1800-2100, 2100-2400 hours local standard time.

### MISSING HOUR GROUPS

Summary sheets are omitted when stations maintaining limited observing schedules did not report certain three-hour periods for any particular month during the available period of record. Such missing sheets are listed below, and are applicable to all summaries prepared from hourly observations.

JANUARY \_\_\_\_\_  
FEBRUARY \_\_\_\_\_  
MARCH \_\_\_\_\_

APRIL \_\_\_\_\_  
MAY \_\_\_\_\_  
JUNE \_\_\_\_\_

JULY \_\_\_\_\_  
AUGUST \_\_\_\_\_  
SEPTEMBER \_\_\_\_\_

OCTOBER \_\_\_\_\_  
NOVEMBER \_\_\_\_\_  
DECEMBER \_\_\_\_\_

STATION NO OR SUMMARY		STATION NAME		LATITUDE		LONGITUDE		FIELD ELEV (FT)		CALL SIGN		WMO NO.	
035621		ALCONBURY RAF STN ENGLAND		N 52 22		W 000 13		160		EGWZ		03562	
STATION LOCATION AND INSTRUMENTATION HISTORY													
NUMBER OF LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY				
			FROM	TO			FIELD (FT)	HT. BARO.					
1	Alconbury England	RAF	Sep 55	Jan 56	N 52 22	W 000 14	169	179	24				
2	Same	Same	Feb 57	Apr 57	N 52 22	W 000 15	159	179	10				
3	Same	Same	May 57	Oct 60	Same	Same	Same	Same	24				
4	Same	Same	Nov 60	Mar 64	Same	Same	Same	162	24				
5	Same	Same	Apr 64	Mar 66	Same	Same	161	Same	24				
6	Same	Same	Apr 66	Dec 66	Same	W 000 13	Same	Same	24				
7	Same	Same	Jan 67	Jul 72	Same	Same	Same	163	24				
8	Same	Same	Oct 72	23 Dec 77	Same	Same	160	Same	24				
9	Same	Same	24 Dec 77	Jan 82	Same	Same	160	Same	22				
									Mon-Fri				
									10-Sat &				
									UK Hal				
									6-Sun &				
									US Hal				
10	Same	Same	Jan 82	Aug 82	Same	Same	160	164	Same				
11	Same	Same	Aug 82	Jun 83	Same	Same	Same	Same	24				
SURFACE WIND EQUIPMENT INFORMATION													
NUMBER OF LOCATION	DATE OF CHANGE	LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE							
1	Sep 55	Located on catwalk around control tower	AN/GMQ-1	None	33 Ft								
2	15 Apr 57	Located 670 ft SE of obs tower	Same	None	Ground Level								
3	5 Apr 60	Same	AN/GMQ-1	RO-2	Same								
4	2 Apr 62	Same	Same	Same	13 ft								
5	3 Apr 64	Located 700 ft SE of ROS	AN/GMQ-1	RO-2	13 ft								
6	1 Apr 65	Located 670 ft SE of ROS	Same	Same	Same								
7	4 Jan 68	Dual Instrumented											
		1. Adjacent to approach end of rwy 12	AN/GMQ-1	RO-2	13 ft								
		2. Adjacent to approach end of rwy 30	AN/GMQ-1		13 ft								

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
8	4 Jan 71	Dual Instrumented 1. Located 720 ft from centerline and 1560 ft from end of rwy 30 2. Located 520 ft from centerline and 1140 ft from end of rwy 12	AN/GMQ-20	RO-362	13 ft	
9	Jun 77	1. Same 2. Same	Same Same	Same	13 ft 13 ft	
10	25 Aug 82	1. Same 2. Same	Same Same	Same	13 ft 13 ft	
11	1 Jun 83	1. Same 2. Same	Same Same	Same	13 ft 13 ft	

PART A

WEATHER CONDITIONS

This summary is a percentage frequency occurrence of various atmospheric phenomena and obstructions to vision, derived from hourly observations, and is presented in two tables as follows:

1. By month and annual, all hours and years combined.
2. By month, all years combined, by standard 3-hour groups.

A percent value of ".0" in these tables indicates less than .05 percent, which is usually only one occurrence. The various phenomena included in each category on the forms are listed below:

Thunderstorms - All reported occurrences of thunderstorm, tornado, and waterspout.

Rain and/or drizzle - All liquid precipitation, falling to the ground, not freezing.

Freezing rain and/or freezing drizzle (glaze) - Precipitation falling in liquid form, but freezing on contact with an unheated surface.

Snow and/or sleet (ice pellets) - Included are snow, snow pellets, sleet, snow grains, ice crystals, and ice pellets from Jan 68 and later. (Snow pellets also known as soft hail)

Hail - Occurrences of hail and small hail are included.

Percentage of observations with precipitation - Included in this category are the observations when one or more of the above phenomena occurred. Since more than one type of precipitation may be reported in the same observation, the sums of the individual categories may exceed the percentages of the observations with precip.

Fog - Included are fog, ice fog, and ground fog.

Smoke and/or haze - Occurrences of smoke, haze, or combinations of smoke and haze are included.

Blowing snow - Occurrences of blowing snow (also drifting snow when reported from non-WBAN sources).

Dust and/or sand - Included are blowing dust, blowing sand, and dust.

Continued on Reverse

Blowing spray - This item if reported, is not shown in a separate category on this form but is included in the computation Percentage of Observations with Obstructions to Vision, below.

Percentage of observations with obstructions to vision - Included in this category are the observations when one or more of the above obstructions to vision occurred. Since more than one type of obstruction may be reported in the same observation, the sums of the individual categories may exceed the percentage total columns. Also, although precipitation may reduce visibility, it is not considered an obstruction to vision for purposes of this summary; therefore, the percentage total of obstructions to vision need not reflect the total observations with reduced visibility.



AL CLIMATOLOGY BRANCH  
METAC  
WEATHER SERVICE/MAI

# WEATHER CONDITIONS

STATION ACCORDING TO REF. UP STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SM AMT H	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	1-1		11.4		1.7		13.1	16.5	1.1			27.1	410
	1-2		12.3		1.7		13.7	18.9	1.1			25.1	145
	6-10		11.6	.1	4.1		15.1	21.0	1.1			3.1	927
	19-21	.2	2.9	.1	4.5		13.7	18.6	1.1			32.7	519
	12-14		11.1	.2	4.4		13.5	14.7	1.1			2.1	517
	15-17		11.1	.2	3.4		14.1	15.4	1.1			25.1	515
	18-2		11.1		3.3		14.4	15.7	1.1			30.7	765
	21-23		11.1		.2		11.1	18.1	1.1			29.3	747
TOTALS		.2	11.4	.1	3.1		13.1	17.4	1.1			29.1	6185

STATION NAME  
STATION  
STATION

# WEATHER CONDITIONS

STATION NAME STATION YEARS MONTH

PERCENTAGE PROBABILITY OF OCCURRENCE OF WEATHER  
CONDITIONS FOR HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
Jan	1-24		11.5	.1	2.3		13.9	22.0	21.4			45.4	49
	2-24		12.5	.4	4.7		17.6	14.4	19.7			41.7	107
	25-2		14.5	1.1	2.5		17.1	26.7	11.6			45.4	76
	3-24		14.1	.4	4.4		17.0	23.2	15.7			45.1	74
	1-24		15.6		3.2		7.1	14.0	21.4	.1		36.6	113
	25-24		14.1		4.7		17.6	14.4	19.7			41.7	107
	1-2		14.1		3.2		17.0	23.2	15.7			45.1	74
	1-24		14.1		3.2		17.0	23.2	15.7			45.1	614
TOTALS			11.6	.3	3.5		15.1	21.0	19.7			47.0	549

USAF CLIMATELOGY BRANCH  
 AFSTAC  
 1111 STATION SERVICE AVMC

# WEATHER CONDITIONS

STATION ALCORN AFB TX STATION NAME ALCORN YEARS 1960 MONTH 1

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
 CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
1-1	1-1		10.2		0.0		14.1	17.0	10.1			0.0	440
1-2	1-2		14.0		1.2		11.3	0.0	1.2			0.0	787
1-3	1-3		10.0		2.7		14.0	0.3	1.0			0.0	59
1-4	1-4		11.4		2.0		10.3	10.7	1.0			0.0	57
1-5	1-5	0.2	0.0		0.7		1.0	5.7	14.7			0.0	100
1-6	1-6	0.2	10.2		1.4		1.3	0.1	1.0			0.0	100
1-7	1-7		0.0		1.2		11.5	0.2	13.2			0.0	790
1-8	1-8		10.1		0.0		17.0	10.0	14.7			0.0	730
TOTALS		0.4	11.1		0.2	0.0	14.4	10.0	14.4			0.0	1747

U.S. AIR CLIMATOLOGY SERVICE  
AFETAC  
U.S. AIR FORCE SERVICE AGENCY

# WEATHER CONDITIONS

STATION ALCONGUS AFB TX STATION NAME ALCONGUS YEARS 1960-1961 MONTH APR

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIR	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
APR	00-01		7.5		1.0		1.0	1.0	1.0			2.7	1.0
	01-02		10.2		.4		1.0	2.0	14.5			2.0	24.7
	02-03		1.0		.2		1.0	2.0	14.7			4.7	6.8
	03-04		1.0		.4		1.0	1.0	1.0			2.0	7.9
	04-05	.2	11.7		.6		1.0	4.0	1.0			1.0	26.7
	05-06	.4	11.4		1.6	.2	1.0	2.0	8.0			1.0	25.7
	06-07	.3	11.5		1.2		1.0	4.0	1.0			1.0	23.0
	07-08		9.9		.2		1.0	6.0	1.0			1.0	1.6
TOTALS			1.0		.4		1.0	10.0	1.0			2.7	5.0

CENTRAL CLIMATOLOGY STATION  
 USAFETAC  
 WEATHER SERVICE ZONE

# WEATHER CONDITIONS

STATION ALCONGUE AFB, NM 19-44 YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
 CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
MAY	1-2		1.0				1.0	1.0	1.0			1.0	1.0
	3-4		2.0				2.0	27.0	14.4			1.0	2.7
	5-6		1.0		1.0		1.0	10.0	1.0			1.0	1.0
	7-8	1.0	1.0		1.0		1.0	7.0	1.0			1.0	1.7
	9-10	1.0	1.0				1.0	3.0	1.0			1.0	1.0
	11-12	1.0	1.0		1.0		1.0	1.0	1.0			1.0	1.0
	13-14	1.0	1.0		1.0		1.0	1.0	1.0			1.0	1.0
	15-16	1.0	1.0		1.0		1.0	1.0	1.0			1.0	1.0
	17-18	1.0	1.0		1.0		1.0	1.0	1.0			1.0	1.0
	19-20	1.0	1.0		1.0		1.0	1.0	1.0			1.0	1.0
	21-22	1.0	1.0		1.0		1.0	1.0	1.0			1.0	1.0
	23-24	1.0	1.0		1.0		1.0	1.0	1.0			1.0	1.0
	25-26	1.0	1.0		1.0		1.0	1.0	1.0			1.0	1.0
	27-28	1.0	1.0		1.0		1.0	1.0	1.0			1.0	1.0
	29-30	1.0	1.0		1.0		1.0	1.0	1.0			1.0	1.0
TOTALS		4	2.0		1.0		1.0	9.0	1.0			1.0	5.0

LOCAL CLIMATOLOGY BRANCH  
METAC  
WEATHER SERVICE ZHAC

# WEATHER CONDITIONS

STATION ALCONDRY RAF, UK 1952 YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	1-31	2	6.6				1.0	1.0	1.0			1.0	5.3
	1-31	3	6.6				1.3	2.1	1.0			4.0	7.0
	1-31	7	6.7				1.7	1.0	1.0			3.0	1.0
	1-31	7	7.2				7.0	3.0	4.0			1.0	1.7
	1-31	1.1	3.0				5.0	1.0	1.0			1.7	1.5
	1-31	1.9	11.5				11.0	1.0	4.0			4.0	1.2
	1-31	1.0	1.0				1.0	1.0	1.0			1.0	1.1
	1-31	3	1.6				5.0	7.0	1.0			1.0	1.7
TOTALS		18	4.0		1.0		1.0	1.0	1.0			1.0	1.0

☐
 NATIONAL CLIMATE DATA CENTER  
 NATIONAL WEATHER SERVICE/NOAA

# WEATHER CONDITIONS

STATION WILCOX, PAF, AK STATION NAME WILCOX YEARS 1961 MONTH 1961

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
 CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
1-1	0-1	.2	6.9				1.1	2.1	1.1			2.1	75
2-1	1-2	.3	6.9				1.1	2.1	1.1			2.1	797
3-1	2-3	.6	6.9			.1	1.1	2.1	1.1			2.1	62
4-1	3-4	.2	6.9				1.1	3.1	1.1			1.1	743
5-1	4-5	.4	7.1				2.1	2.1	4.1			1.1	67
6-1	5-6	.8	7.7				1.7	1.1	2.1			1.1	500
7-1	6-7	1.3	7.7				2.7	1.1	2.1			1.1	771
8-1	7-8	.3	7.7				1.7	2.1	2.9			1.1	675
TOTALS		.6	6.7			.1	2.1	2.7	2.1			2.1	1,76

U.S. AIR FORCE  
AF 120  
AF 120

# WEATHER CONDITIONS

STATION ALCONBURG RAF, VA STATION NAME ALCONBURG YEARS 1954 MONTH 1954

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS EST	THUNDER STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS
Jan	1-31	1	10				7	100	100			100	507
Feb	1-28	1	10				7	99	100			100	507
Mar	1-31		10				10	99	100			100	507
Apr	1-30	3	10				10	100	100			100	507
May	1-31	10	10				10	100	100			100	507
Jun	1-30	10	10				10	100	100			100	507
Jul	1-31	10	10				10	100	100			100	507
Aug	1-31	10	10				10	100	100			100	507
Sep	1-30	10	10				10	100	100			100	507
Oct	1-31	10	10				10	100	100			100	507
Nov	1-30	10	10				10	100	100			100	507
Dec	1-31	10	10				10	100	100			100	507
TOTALS		10	10				10	100	100			100	507



☐ METEOROLOGICAL BRANCH  
 AFETAC  
 AIR WEATHER SERVICE/MAL

## WEATHER CONDITIONS

STATION ALCONBURY PAF WA STATION NAME 7-3 YEARS 1 MONTH 1

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
 CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS
JAN	1-31	4	142				1.2	12	1.5				142
FEB	1-28	2	142				1.2	12	1.1				142
MAR	1-31		42				1.2	7	1.4				18
APR	1-30		42				1.2	6.1	1.4				17
MAY	1-31	2	42				1.2	1.2	1.4				14
JUN	1-30	6	7.1				1.2	1.4	1.4				15
JUL	1-31	3	48				1.2	1.4	1.4				14
AUG	1-31	1	11.1				1.2	1.4	1.4				17
SEPT	1-30												
OCT	1-31												
NOV	1-30												
DEC	1-31												
TOTALS		3	7.1				1.2	1.4	1.4				

LOCAL CLIMATOLOGY BRANCH  
AFETAC  
AFW WEATHER SERVICE/NAO

# WEATHER CONDITIONS

STATION ALCONBURY RAE, UK STATION NAME 7-67 YEARS 0-1 MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
0-1	0-3		1.9				11.9	23.0	13.9			37.5	6.5
	4-7		1.9				11.9	23.0	8.0			41.0	7.8
	8-11		1.2				11.2	26.6	11.9			40.5	12
	12-15	1	12.2				15.2	20.0	15.4			36.7	35
	16-19		11.0				11.0	7.7	15.9			23.0	58
	20-23		14.6				14.6	5.5	16.5			22.0	38
	24-27		13.2				13.2	9.3	16.6			27.8	33
	28-31		10.7				10.7	13.4	10.0			31.0	55
TOTALS			12.1				12.1	12.0	14.6			33.0	6.88

CLIMATE CLIMATOLOGY BRANCH  
USAFETAC  
AFM WEATHER SERVICE/MAC

# WEATHER CONDITIONS

STATION ALCONBURY RAF, UK STATION NAME ALCONBURY YEARS 1951-57 MONTH NOV

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
NOV	17-01		10.5	.2			10.7	16.1	2.5			18.6	478
	3-05		14.4	.1			14.5	18.7	11.4			25.9	726
	15-03		16.2	.6			16.8	20.3	12.8			33.7	170
	9-11		14.2	.3			14.5	15.8	14.4			34.7	793
	12-16	.1	13.6	.1			13.7	8.1	14.0			27.8	529
	15-17		14.2	.5			14.7	8.5	14.9			27.4	525
	18-2	.1	11.5	.1			11.6	11.1	16.7			27.8	712
	1-23		1.7			.1	1.8	14.2	16.2			32.2	665
TOTALS		.2	12.2	.1	.2	.1	13.0	14.7	16.0			29.1	5315

UNITED STATES AIR FORCE  
 USAFETAC  
 AIRCRAFT SERVICE AREA

# WEATHER CONDITIONS

STATION ALCONSBURY AFB, MS STATION NAME ALCONSBURY YEARS 1954 MONTH DEC

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
 CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST.)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & /OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
DEC	0-5		1.2		1.2		10.1	23.6	1.0			3.0	467
	6-11		15.7		2.4		15.5	22.6	11.3			3.0	746
	12-17		10.1		2.3		11.9	23.2	1.7			32.0	824
	18-23		11.7		1.7		17.3	20.3	13.3			7.0	158
	24-31		11.6		2.3		15.0	10.2	13.2			20.4	908
	1-5		1.5		1.9		12.1	17.2	1.0			11.1	209
	6-10		12.5		1.2		13.0	15.1	13.2			33.3	760
	11-15		1.3		1.1		13.1	23.2	1.0			6.0	738
	16-20												
	21-25												
	26-31												
TOTALS			11.5		1.8		15.6	20.8	1.6			33.0	2310

METEOROLOGICAL CLIMATOLOGY BRANCH  
 AFETAC  
 WEATHER SERVICE/MAC

# WEATHER CONDITIONS

STATION ALCONBURG EAF, UK STATION NAME ALCONBURG EAF, UK YEARS 1961 MONTH ALL

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
 CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER- STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & / OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	ALL	.1	11.4	.1	.5		12.8	17.4	12.2			28.0	6166
FEB			12.4	.2	1.5		15.1	23.8	12.0	.1		40.0	5499
MAR		.0	11.1		.1		12.4	13.7	12.4			26.3	6747
APR		.1	11.1		.0		11.5	10.8	12.6			23.4	5791
MAY		.4	10.8		.1		11.6	9.5	12.8			24.0	6609
JUN		.8	9.3		.5		10.3	8.9	12.1			22.0	6028
JUL		.6	8.0				10.6	8.7	9.0			15.7	6376
AUG		.8	8.9				9.9	12.5	15.1			27.1	6495
SEP		.3	9.8				9.8	9.6	12.4			24.9	6113
OCT		.0	12.1				12.1	18.8	14.6			33.0	6764
NOV		.0	12.9	.0	.2		12.0	14.2	19.1			35.2	5715
DEC			11.6		1.0		11.9	20.8	12.8			33.0	6211
TOTALS		.3	11.2	.0	1.0	.5	12.0	13.0	12.3			27.1	7346

## PART A

## ATMOSPHERIC PHENOMENA

This summary is a presentation of the percentage of days with occurrence of various atmospheric phenomena. These data are obtained from all recorded information on the reporting forms or from hourly data and combined into a daily observation.

The descriptions of the phenomena in the Weather Conditions Summary above also apply for the categories summarized in these daily tabulations. However, it should be noted that in this summary the columns headed "% OF OBS WITH PRECIP" and "% OF OBS WITH OBST TO VISION" show the percentage of days rather than the percentage of observations. Since more than one type of precipitation or more than one type of obstruction may occur in the same daily observation, the sum of the values in the individual categories may differ from the total columns.

A percent value of ".0" in the table indicates less than .05 percent, which is usually only one occurrence.

This presentation is by month with annual totals, and is prepared with all years combined.

- NOTES: (1) A day with rain and/or drizzle was not separately reported in the WBAN data prior to year 1949. Therefore, percentages in this column are restricted to the period Jan 1949 and later.
- (2) A day with freezing rain and/or freezing drizzle is also properly reported as a day with rain and/or drizzle.
- (3) A day with dust and/or sand is included in this summary only when visibility is reduced to less than 5/8 mile.

LOCAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

**WEATHER CONDITIONS**  
XXXXXXXXXXXXXXXXXXXXXXXXXXXX  
ATMOSPHERIC PHENOMENA

1921  
STATION

ALCONBURY RAF UK  
STATION NAME

55-57

YEARS

ALL  
MONTH

PERCENTAGE OF DAYS WITH VARIOUS ATMOSPHERIC PHENOMENA  
FROM DAILY OBSERVATIONS

MONTH	HOURS (LST)	THUNDER STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	DAILY	.6	52.9	1.4	18.1	1.0	65.7	56.6	69.8	1.2		31.3	629
FEB		.3	54.5	.8	19.6	.3	62.1	57.1	73.6	.5		62.8	749
MAR		1.3	61.2		13.9	1.6	64.7	51.3	69.9	.1		77.4	927
APR		2.1	60.8		5.6	1.8	61.3	41.1	58.3			72.8	870
MAY		6.2	56.6		.7	1.6	56.6	44.2	68.7			75.2	928
JUN		6.9	51.4		.2	.6	51.4	44.1	66.7			71.5	775
JUL		6.4	54.2			.4	54.2	42.3	67.5			72.4	775
AUG		9.2	56.8			.4	56.8	54.2	69.9			76.3	775
SEP		4.4	53.8			.3	57.5	55.7	73.7			74.0	765
OCT		.9	55.7		.1		55.7	62.5	74.6			67.3	678
NOV		1.4	62.8		4.4		63.4	56.9	71.4		.1	79.1	768
DEC		.1	61.2	.4	11.2	.4	64.8	60.2	71.6	.2	.1	62.6	816
TOTALS		3.6	57.5	.2	6.1	.7	59.3	52.2	70.3	.2	.0	77.5	9514

U S AIR FORCE  
ENVIRONMENTAL TECHNICAL  
APPLICATIONS CENTER

( PART B PRECIPITATION, SNOWFALL & SNOW DEPTH

This part of the Uniform Summary consists of eight summaries derived from daily observations as follows:

B

1. The first set presents, in three tables, the percentage frequency of various daily amounts of PRECIPITATION, SNOWFALL, and SNOW DEPTH. The daily amount summary is prepared by month and annual, all years combined, and includes percent of days with measurable amounts; percent of days having none, traces, and given amounts; and means, greatest and least monthly amounts. (The last three statistics are omitted from the snow depth summary because of their doubtful and limited value.) A total count of valid observations is given for months and annual. Stations are included in which a portion or all of the period may contain months with missing days. This will be noted on the summary pages. A percent value of ".0" in these daily amount tables indicates less than .05 percent which is usually only one occurrence.
2. The second set of three tables presents the extreme daily amounts, by individual year and month, of PRECIPITATION, SNOWFALL, and SNOW DEPTH for the entire period of record available. Also provided are the means and standard deviations for each month and annual (all months) and the total valid observation count. An asterisk (\*) is printed in any year-month block when the extreme value is based on an incomplete month (at least one day missing for the month). When a month has valid observations reported but no occurrences, zeros are given in the tables as follows:

EXTREME DAILY PRECIPITATION	".00"	equals none for the month (hundredths)
EXTREME DAILY SNOWFALL	".0"	equals none for the month (tenths)
EXTREME DAILY SNOW DEPTH	"0"	equals none for the month (whole inches)

3. The third set of two tables provides the total monthly amounts of PRECIPITATION and SNOWFALL for each year-month and annual. Also prepared are the means, standard deviations, and total number of valid observations for each month and annual (all months). An asterisk (\*) is printed in each data block if one or more days are missing for the month. No occurrences for a month are indicated in the same manner as in the extreme tables above. If a trace becomes the extreme or monthly total in any of these tables it is printed as "TRACE."

Continued on Reverse Side

Values for means and standard deviations do not include measurements from incomplete months.



- NOTES: (1) The above studies may also be prepared for stations operating for less than full months for portions or all of the period of record. This may include stations operating 5 or 6 days a week and those with only random days missing. An asterisk (\*) in the data blocks will give an indication that a month is incomplete. Please refer to Station History at front of book and observation counts in each summary to evaluate the amounts of data missing.
- (2) Hail was included in snowfall occurrences in the summary of day observations prior to Jan 56, but these occurrences have been removed from snowfall category and counted as Hail in these summaries.
- (3) Snow Depth was recorded and punched at various hours during the period available from U. S. operated stations. The hours used by each service for each period are as follows:

Air Force Stations:

Beginning thru 1945	at 0800LST
Jan 46-May 57	at 1230GMT
Jun 57-present	at 1200GMT

U. S. Navy and National Weather Service (USWB)

Beginning thru Jun 52	at 0030GMT
Jul 52-May 57	at 1230GMT
Jun 57-present	at 1200GMT

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## DAILY AMOUNTS

PERCENTAGE FREQUENCY OF  
PRECIPITATION  
(FROM DAILY OBSERVATIONS)

035621 ALCONBURY RAF UK

55-83

STATION

STATION NAME

YEARS

PRECIP	NONE	TRACE	AMOUNTS (INCHES)												PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO. OF OBS.	MONTHLY AMOUNTS (INCHES)		
			01	02-05	06-10	11-25	26-50	51-100	101-250	251-500	501-1000	1001-2000	OVER 2000	MEAN			GREATEST	LEAST	
SNOWFALL	NONE	TRACE	01-0.4	0.5-1.4	1.5-2.4	2.5-3.4	3.5-4.4	4.5-6.4	6.5-10.4	10.5-15.4	15.5-25.4	25.5-50.4	OVER 50.4						
SNOW DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120						
JAN	31.3	20.0	5.4	13.9	8.8	13.4	5.7	1.4						48.7	828	1.91	3.27	.64	
FEB	35.5	22.6	5.5	13.1	7.8	9.7	4.6	1.2						41.9	733	1.40	3.58	.08	
MAR	32.1	23.3	7.1	12.7	8.1	9.6	5.3	1.4	.5					44.5	806	1.94	5.14	.17	
APR	34.0	19.4	7.6	12.5	9.6	10.4	5.5	.9	.1					46.6	779	1.63	3.48	.00	
MAY	37.5	19.7	5.3	12.3	6.6	11.3	5.2	1.6	.5					42.8	829	1.81	4.21	.47	
JUN	45.2	17.4	4.9	9.8	5.3	8.8	5.0	2.6	.9					37.3	774	2.04	5.06	.10	
JUL	41.7	22.6	4.5	9.3	6.1	7.9	5.6	1.4	.0					35.7	774	1.98	5.47	.03	
AUG	39.5	18.8	6.7	12.3	5.8	9.3	4.5	1.8	1.3					41.7	775	2.20	4.99	.41	
SEP	43.6	20.0	4.0	8.7	6.0	9.9	5.2	1.7	.7					36.4	745	1.93	3.83	.03	
OCT	41.8	19.2	4.2	13.0	6.3	8.5	4.3	2.5	.1					39.0	790	1.76	4.48	.16	
NOV	31.7	21.4	6.5	13.7	6.0	11.9	6.7	1.9	.1					46.9	780	1.91	4.30	.63	
DEC	31.0	22.6	5.8	12.9	7.6	13.0	5.1	1.8	.2					46.4	829	2.00	5.15	.44	
ANNUAL	37.1	20.6	5.6	12.0	7.0	10.3	5.2	1.7	.4					42.3	9442	2.51			

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AID WEATHER SERVICE/MAC

# EXTREME VALUES

## PRECIPITATION

(FROM DAILY OBSERVATIONS)

135621 ALCONBURY RAF UK  
STATION STATION NAME

55-83

YEARS

### 24 HOUR AMOUNTS IN INCHES

MONTH YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
55									* .33	.66	.30	.22	
56	* .68												
57		* .33		* .70	.87	.58	.31	1.02	.54	.44	.56	.65	
58	.70	.53	.43	.34	.38	1.15	.38	.50	.52	.62	.41	.35	1.15
59	.60	.06	.43	.16	.34	.28	1.30	.16	.03	.77	.49	.61	1.30
60	.50	.51	1.37	.12	.70	.98	.77	.62	1.12	.72	.75	.61	1.37
61	.31	.27	.16	.36	.42	.70	.38	.32	.41	.35	.51	.74	.74
62	.38	.17	.27	.54	.38	.03	.48	.47	.53	.44	.15	.74	.74
63	.38	.26	1.64	.32	.48	.50	.43	.82	.85	.62	.39	.15	1.64
64	.31	.32	1.33	.57	.23	.86	.47	.55	.75	.11	.29	.22	1.33
65	.33	.18	.41	.28	.36	.34	.47	.49	1.07	.20	.46	.60	1.07
66	.21	.57	.29	.39	.29	2.24	.34	1.42	1.01	.69	.44	.47	2.24
67	.20	.46	.51	.46	.70	1.73	.69	.37	.24	.59	.29	.37	1.03
68	.39	.35	.19	.41	.57	.52	2.08	1.78	1.41	.68	.36	.12	2.08
69	.71	.83	.48	.21	1.27	.91	.78	.22	.09	.25	.73	.24	1.27
70	.52	.35	.73	.49	.71	1.77	.37	1.75	.44	.30	.78	.28	1.77
71	.92	.18	.50	.68	.78	.64	.20	.67	.27	.93	.40	.41	.93
72	.35	.18	.42	.46	.20	.51	.02			* .12	.84	.79	
73	.17	.31	.22	.41	.67	1.15	1.60	.23	.28	.31	.28	.29	1.60
74	.37	.80	.14	.14	.33	.67	.77	1.06	.71	.54	1.05	.20	1.06
75	.47	.21	.57	.37	1.05	.26	.44	.16	.81	.07	.28	.49	1.05
76	.22	.20	.19	.44	.40	.38	1.01	2.07	1.30	.65	.44	.64	2.07
77	.61	.60	.24	.41	.22	.96	.18	1.27	.13	.31	.37	.76	1.27
78	.31	.32	.35	.33	.72	.94	.99	.55	.52	.12	.23	1.23	1.23
79	.41	.54	.98	.42	1.75	.21	.32	.65	.32	.85	.19	1.01	1.75
80	* .63	.37	.59	.35	.47	.34	.73	1.16	.22	1.29	.52	.42	1.29
81	* .50	.53	1.20	1.72	.57	.51	.31	.67	.55	.93	.40	.24	1.72
82	* .52	.22	.85	.26	1.35	1.11	.33	.47	.12		.95	.77	
83	.37	.25	.61	.76	.65								
MEAN	.424	.366	.521	.387	.582	.758	.657	.770	.588	.520	.457	.49	1.307
SD	.184	.270	.411	.13	.310	.490	.473	.533	.388	.298	.223	.255	.433
TOTAL OBS	828	733	806	779	829	774	770	773	745	700	780	829	9442

NOTE \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-883 (OLA)

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

**EXTREME VALUES**  
MONTHLY PRECIPITATION

(FROM DAILY OBSERVATIONS)

075521 ALCONBURY RAF UK  
STATION STATION NAME

55-57 YEARS

TOTAL MONTHLY PRECIPITATION IN INCHES

MONTH YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
55									* .33	1.92	1.07	1.37	
56	* 2.43												
57		* .48		* .00	1.81	1.49	1.86	1.65	3.05	1.41	1.28	1.39	
58	2.86	2.41	1.55	.88	1.81	4.47	1.38	1.72	2.46	1.88	1.23	1.92	24.59
59	2.55	.08	1.84	1.00	.47	.87	4.18	.51	.73	1.54	2.36	3.62	19.05
60	2.21	1.41	2.54	.33	1.20	2.76	2.85	2.11	3.83	4.31	3.61	2.45	29.61
61	2.00	1.72	.17	2.17	.92	1.27	1.90	1.11	1.75	2.15	1.18	3.46	19.73
62	1.66	.64	.88	1.96	1.39	.10	1.58	1.90	2.75	.98	1.11	1.86	16.81
63	1.66	.60	3.84	2.16	1.83	1.67	1.37	2.77	2.29	1.32	2.98	.44	22.93
64	.86	.71	3.19	2.00	1.06	3.78	1.75	1.33	1.13	.43	.97	.98	17.79
65	1.75	.60	2.45	1.53	1.47	1.78	1.90	1.87	3.25	.39	2.11	3.51	22.54
66	1.09	2.29	.53	3.11	1.47	3.10	2.28	3.49	1.49	2.85	1.86	2.26	25.82
67	.77	2.06	1.21	1.92	3.04	1.29	1.65	1.44	1.48	3.31	1.25	1.61	21.73
68	1.57	.97	.55	1.18	1.33	2.06	5.47	4.28	3.71	1.40	1.49	1.54	25.55
69	2.47	2.28	1.42	1.01	4.21	1.67	1.79	1.51	.27	.45	2.81	1.82	21.71
70	2.83	1.97	1.90	2.92	1.10	2.89	1.83	3.96	1.45	.74	4.07	1.30	26.96
71	3.27	.41	1.31	1.59	2.09	2.70	.44	2.01	1.07	2.40	1.86	1.05	20.20
72	2.27	1.15	2.00	1.55	1.20	1.59*	.73			* .16	2.66	2.40	
73	.64	.64	.56	1.77	2.89	3.20	4.16	.55	1.89	1.05	.99	1.33	19.62
74	1.99	2.10	.70	.44	1.05	2.35	1.92	4.38	2.68	3.14	4.30	.97	26.02
75	1.99	.61	3.58	1.93	3.08	.79	2.07	.41	2.53	.23	1.17	1.35	19.74
76	.89	.58	.59	.78	1.41	.44	1.28	2.71	3.66	4.48	2.18	2.25	21.25
77	2.59	3.58	1.61	1.14	.98	2.89	.41	4.99	.49	.63	1.36	2.14	22.81
78	1.90	1.31	1.50	1.56	2.05	2.09	2.38	1.88	1.20	.17	.63	5.15	21.82
79	2.46	2.07	3.67	2.79*	3.00*	.89	.79	2.17	.75	2.56	1.35*	3.63	*26.13
80	* 1.87	2.43	3.17	.92	.96	2.36*	3.42	2.86	.50	2.47*	1.60*	1.49	*23.98
81	* 1.67*	1.31	5.14*	3.40*	2.70	1.37*	1.21	1.31	2.62*	2.58*	1.52*	.91	*25.74
82	* 2.31	.98	2.09	.73	2.95*	5.04	.66	2.10*	.22		* 1.91	1.74	
83	1.55*	1.42	1.40	3.48	3.55								
MEAN	1.906	1.400	1.935	1.632	1.811	2.038	1.978	2.201	1.931	1.759	1.912	1.996	22.279
S D	.721	.874	1.262	.831	.952	1.060	1.223	1.227	1.137	1.239	1.021	1.754	3.301
TOTAL OBS	828	733	876	779	829	774	774	775	745	790	780	829	9442

NOTE \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-3 (OLA)

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# DAILY AMOUNTS

PERCENTAGE FREQUENCY OF  
SNOWFALL  
(FROM DAILY OBSERVATIONS)

025621 ALCONBURY RAF UK

55-83

STATION

STATION NAME

YEARS

PRECIP	AMOUNTS (INCHES)													PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO OF OBS	MONTHLY AMOUNTS (INCHES)		
	NONE	TRACE	01	02-05	06-10	11-25	26-50	51-100	101-250	251-500	501-1000	1001-2000	OVER 2000			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	01-04	05-14	15-24	25-34	35-44	45-64	65-104	105-154	155-254	255-504	OVER 504					
SNOW DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120					
JAN	91.7	11.6	1.8	3.1	1.2	.7	.2							7.1	828	7.6	11.2	.0
FEB	78.5	13.8	3.4	2.3	.8	.5	.3	.3						7.7	732	7.2	14.1	.0
MAR	85.1	12.3	1.2	.4	.7			.1	.1					2.6	876	1.1	7.4	.0
APR	93.9	4.8	.9	.6										1.5	800	.2	1.5	.0
MAY	99.3	.7													829	TRACE	TRACE	.0
JUN	99.9	.1													775	TRACE	TRACE	.0
JUL	100.0														774	.0	.0	.0
AUG	100.0														775	.0	.0	.0
SEP	100.0														759	.0	.0	.0
OCT	100.0														790	.0	.0	.0
NOV	94.8	3.8	.8	.4	.1		.1							1.4	781	.4	5.0	.0
DEC	87.8	8.1	1.7	1.2	.6	.2	.1		.2					4.1	831	1.4	12.7	.0
ANNUAL	93.4	4.6	.8	.7	.3	.1	.1	.0	.0					2.0	9480	7.9		

USAFETAC FORM 015-5 (OL A)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# EXTREME VALUES

SNOWFALL

FROM DAILY OBSERVATIONS

015521  
STATION

ALCONBURY RAF UM  
STATION NAME

55-83

YEARS

## 24 HOUR AMOUNTS IN INCHES

MONTH YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
55									*	.0	.0	.0 TRACE	
56	*	3.0											
57		*TRACE		*	.0	.0	.0	.0	.0	.0	.0	TRACE	
58		1.0	4.1	6.0	.3	.0	.0	.0	.0	.0	.0	.9	6.0
59		2.0	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	.0	2.0
60		2.6	1.0	TRACE	.0	.0	.0	.0	.0	.0	.0	.8	2.0
61		TRACE	.0	.1	.0	.0	.0	.0	.0	.0	.0	7.4	7.4
62		2.0	1.7	.8	.0	.0	.0	.0	.0	.0	1.0	7.4	7.4
63		3.4	.8	TRACE	TRACE	.0	.0	.0	.0	.0	.0	.2	3.4
64		1.5	TRACE	2.2	TRACE	.0	.0	.0	.0	.0	.0	.5	2.2
65		1.9	.7	2.2	TRACE	.0	.0	.0	.0	.0	1.5	.0	2.2
66		1.4	2.4	.1	1.1	.0	.0	.0	.0	.0	TRACE	TRACE	2.0
67		.3	TRACE	TRACE	TRACE	TRACE	.0	.0	.0	.0	.0	2.4	2.4
68		3.0	TRACE	TRACE	1.1	.0	.0	.0	.0	.0	.0	.8	3.0
69		1.5	5.3	.3	TRACE	.0	.0	.0	.0	.0	3.7	1.7	5.3
70		1.0	3.5	7.3	.8	.0	.0	.0	.0	.0	.2	1.1	7.3
71		TRACE	.1	1.0	.0	.0	.0	.0	.0	.0	.4	TRACE	1.0
72		TRACE	1.2	.5	.0	.0	.0*	.0	.0	*	.0	.0	
73		.2	.2	TRACE	.5	TRACE	.0	.0	.0	.0	.6	TRACE	.6
74		.1	TRACE	.1	.0	.0	.0	.0	.0	.0	.0	.5	.5
75		.0	.0	.2	.2	.0	TRACE	.0	.0	.0	.0	TRACE	.6
76		TRACE	.1	TRACE	.0	.0	.0	.0	.0	.0	.0	3.2	3.2
77		3.6	1.8	TRACE	TRACE	.0	.0	.0	.0	.0	TRACE	.0	3.6
78		1.4	2.0	1.5	TRACE	.0	.0	.0	.0	.0	TRACE	.6	2.0
79		4.0	3.0	1.9	TRACE*TRACE*	.0	.0	.0	.0	.0	.0*TRACE*	TRACE	4.0
80	*	1.2	TRACE	TRACE	.0	.0	.0*	.0	.0	.0	.0*TRACE*	TRACE	* 1.2
81	*	1.1	1.2	TRACE*TRACE*	.0	.0*	.0	.0	.0*	.0*	.0*	4.3	* 4.3
82	*	3.3	1.0	TRACE	.0	TRACE	.0	.0*	.0	.0	*TRACE	TRACE	
83	*	1.8*	3.1	TRACE	TRACE	.0							
MEAN		1.49	1.20	.99	.18	TRACE	TRACE	.00	.00	.00	.31	1.15	3.27
S D		1.259	1.470	1.837	.341	.000	.000	.000	.000	.000	.813	2.097	2.253
TOTAL OBS		828	732	808	800	829	775	774	775	790	781	831	9480

NOTE \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-60 (OIA)

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

**EXTREME VALUES**  
MONTHLY SNOWFALL

(FROM DAILY OBSERVATIONS)

15621 ALCONHURY RAF UK  
STATION STATION NAME

55-53 YEARS

TOTAL MONTHLY SNOWFALL IN INCHES

YEAR	MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
55										*	.0	.0	TRACE	
56		5.7												
57		TRACE			.0	.0	.0	.0	.0	.0	.0	.0	TRACE	
58		1.0	6.1	0.0	.3	.0	.0	.0	.0	.0	.0	.0	1.0	14.8
59		3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	.0	3.6
60		4.7	1.5	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	.8	7.0
61		TRACE	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	9.5	9.6
62		2.6	2.1	1.1	.0	.0	.0	.0	.0	.0	.0	1.0	7.6	14.4
63		11.2	3.7	TRACE	TRACE	.0	.0	.0	.0	.0	.0	.0	.2	15.1
64		2.5	TRACE	2.3	TRACE	.0	.0	.0	.0	.0	.0	.0	.9	5.7
65		4.7	.9	4.0	TRACE	.0	.0	.0	.0	.0	.0	1.5	.0	10.4
66		3.9	3.4	.1	1.4	.0	.0	.0	.0	.0	.0	TRACE	TRACE	8.8
67		.4	TRACE	TRACE	TRACE	TRACE	.0	.0	.0	.0	.0	.0	2.5	2.9
68		5.2	TRACE	TRACE	1.5	.0	.0	.0	.0	.0	.0	.0	.9	7.6
69		1.0	14.1	.3	TRACE	.0	.0	.0	.0	.0	.0	5.0	3.8	24.7
70		1.0	7.1	7.4	1.5	.0	.0	.0	.0	.0	.0	.2	1.3	18.5
71		TRACE	.1	1.0	.0	.0	.0	.0	.0	.0	.0	.5	TRACE	1.6
72		TRACE	1.2	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	
73		.1	.0	TRACE	.5	TRACE	.0	.0	.0	.0	.0	.6	TRACE	1.6
74		.0	TRACE	.1	.0	.0	.0	.0	.0	.0	.0	.0	.5	.6
75		.6	.0	.2	.5	.0	TRACE	.0	.0	.0	.0	.0	TRACE	1.3
76		TRACE	.1	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	3.2	3.3
77		3.6	1.8	TRACE	TRACE	.0	.0	.0	.0	.0	.0	.0	TRACE	5.4
78		1.4	2.4	1.5	TRACE	.0	.0	.0	.0	.0	.0	.0	TRACE	6.1
79		10.5	6.9	4.3	TRACE	TRACE	.0	.0	.0	.0	.0	.0	TRACE	* 21.7
80		1.3	TRACE	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	* 1.3
81		1.2	1.8	TRACE	TRACE	.0	.0	.0	.0	.0	.0	.0	12.7	* 15.7
82		5.2	1.0	TRACE	.0	TRACE	.0	.1	.0	.0	.0	TRACE	TRACE	
83		1.8	6.8	TRACE	TRACE	.0								
MEAN		2.59	2.19	1.11	.23	TRACE	TRACE	.00	.00	.00	.00	.37	1.37	6.13
SD		3.093	3.307	2.333	.489	.000	.00	.003	.000	.000	.000	1.057	2.465	6.472
TOTAL OBS		828	732	806	870	829	775	776	775	759	790	781	831	9480

NOTE \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 6-66 (OEA)

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# DAILY AMOUNTS

PERCENTAGE FREQUENCY OF  
SNOW DEPTH  
(FROM DAILY OBSERVATIONS)

035621 ALCONBURY RAF UK

55-83

STATION

STATION NAME

YEARS

PRECIP	AMOUNTS (INCHES)													PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO. OF OBS.	MONTHLY AMOUNTS (INCHES)		
	NONE	TRACE	01	02 05	06 10	11 25	26 50	51 100	101 250	251 500	501 1000	1001 2000	OVER 2000			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	01 04	05 14	15 24	25 34	35 44	45 64	65 104	105 154	155 254	255 504	OVER 504					
SNOW DEPTH	NONE	TRACE	1	2	3	4 6	7 12	13 24	25 36	37 48	49 60	61 120	OVER 120					
JAN	84.3	5.9	1.9	1.9	1.8	3.6	.5							9.8	828			
FEB	88.6	3.2	3.9	2.5	.8	.8	.1							8.2	721			
MAR	96.3	2.3	.6	.4	.1	.4								1.5	827			
APR	99.6	.3	.1											.1	800			
MAY	100.0														829			
JUN	100.0														775			
JUL	100.0														774			
AUG	100.0														775			
SEP	100.0														759			
OCT	100.0														790			
NOV	98.8	1.2													781			
DEC	94.1	2.0	1.9	.5	.2	1.0	.2							3.9	831			
ANNUAL	96.8	1.2	.7	.4	.2	.5	.1							4.0	9490			

USAFETAC FORM 015.5 (OL A)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# EXTREME VALUES

SNO. DEPTH

(FROM DAILY OBSERVATIONS)

035621 ALCONBURY RAF UK STATION NAME

55-83 YEARS

## DAILY SNOW DEPTH IN INCHES

YEAR	MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
55										*	0	0	0	
56	*	4												
57		*	0*	0*	0	0	0	0	0	0	0	0	0	
58		1	2	1	0	0	0	0	0	0	0	0	1	2
59		1	0	0	0	0	0	0	0	0	0	0	0	1
60		3	0	0	0	0	0	0	0	0	0	0	1	1
61		0	0	0	0	0	0	0	0	0	0	0	7	4
62		8	2	TRACE	0	0	0	0	0	0	0	0	7	8
63		7	2	TRACE	0	0	0	0	0	0	0	0	TRACE	7
64		0	0	0	0	0	0	0	0	0	0	0	0	
65		0	0	0	0	0	0	0	0	0	0	0	0	
66		0	0	0	0	0	0	0	0	0	0	0	0	
67		0	0	0	0	0	0	0	0	0	0	0	0	
68		1	0	0	1	0	0	0	0	0	0	0	1	
69	TRACE	8	1	0	0	0	0	0	0	0	0	TRACE	TRACE	
70	TRACE	4	5	TRACE	0	0	0	0	0	0	0	TRACE	2	5
71	0	TRACE	0	0	0	0	0	0	0	0	0	TRACE	0	TRACE
72	TRACE	0	TRACE	0	0	0	0*	0	0	0	*	0	0	
73		TRACE	0	0	0	0	0	0	0	0	0	TRACE	0	TRACE
74		0	0	0	0	0	0	0	0	0	0	0	0	
75		1	0	1	0	0	0	0	0	0	0	0	0	1
76		0	0	0	0	0	0	0	0	0	0	0	0	1
77	TRACE	2	2	0	0	0	0	0	0	0	0	0	0	2
78		2	2	2	TRACE	0	0	0	0	0	0	TRACE	1	2
79		6	0	2	0*	0*	0	0	0	0	0	0*TRACE	0	6
80	*TRACE	0	0	0	0	0	0*	0	0	0	0	0*TRACE*	0	*TRACE
81	*TRACE	1	0*	0*	0	0	0*	0	0	0*	0*	0*	5	*
82	*	5	TRACE	0	0	0	0	0	0*	0	0	*	0	
83		2*	3	0	0	0	0	0	0	0	0	0	0	
MEAN		1.5	1.1	.5	.0	.0	.0	.0	.0	.0	.0	TRACE	.9	2.6
SD		2.391	1.941	1.104	.200	.000	.000	.000	.000	.000	.000	.000	1.963	2.910
TOTAL OBS		828	721	627	800	829	775	774	775	759	790	781	831	9490

NOTE \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-80-0 (OEA)

U S AIR FORCE  
ENVIRONMENTAL TECHNICAL  
APPLICATIONS CENTER

C PART C

SURFACE WINDS

Presented in this part are various tabulations of surface winds as follows:

- \*1. Extreme Values - Peak Gusts: Derived from daily observations and presented by individual year and month for the entire period of record available. Speeds are presented in knots, while directions are given in 16 compass points from the beginning of record through June 1968, and in tens of degrees starting in July 1968. The extreme is selected and printed from available peak gusts for each year-month, however an asterisk (\*) is printed in the data block if less than 90% (3 or more missing observations) of the peak gusts are available for the month. An ALL MONTHS value is presented when every month of the year has valid observations. Means and standard deviations are also computed when four or more values are present for any column. A total raw count of valid observations is presented for each month and ALL MONTHS.

NOTE: According to Federal Meteorological Handbook No. 1 specifications (formerly Circular N), "peak gust data are recorded only at stations with continuous instantaneous wind-speed recorders."

- \*2. Bivariate percentage frequency tabulations: Derived from hourly observations, these tabulations are a percentage frequency of wind directions to 16 compass points and calm by wind speeds (knots) in increments of Beaufort classifications. Percentages are shown by both directions and speed, and in addition the mean wind speed is given for each direction.

A separate category is provided on the form for variable winds, which are reported in some data sources. In these data where light and variable winds are reported with no directions but with speeds given, the speeds will be summarized in the appropriate groups opposite the column headed VREL.

- a. Three tables are prepared for ALL WEATHER surface winds, all years combined, by: (1) Annual - all hours combined, (2) By month - all hours combined, and (3) By month - by standard 3-hour groups.
- b. A separate annual table is also presented for surface winds meeting INSTRUMENT CLASS conditions as follows: Ceiling 200 through 1400 feet inclusive with visibility equal to or greater than 1/2 mile, and/or visibility 1/2 through 2-1/2 miles inclusive with ceiling equal to or greater than 200 feet.

NOTE: A percentage frequency of ".0" in these tables represents one or more occurrences amounting to less than ".05" percent.

\*Values for means and standard deviations do not include measurements from incomplete months.

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# EXTREME VALUES

SURFACE WINDS

(FROM DAILY OBSERVATIONS)

035621 ALCONBURY RAE UK  
STATION STATION NAME

59-83 YEARS

## DAILY PEAK GUSTS IN KNOTS

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
YEAR													
59				SSW*30NE	28SSW	71W	35SW	27S	26W	45SSW	35SSW	42	
60	W	39SW	41WNW	45W	45NE	30SW	38WSW	33W	31NNW	34NW	29SW	40W	49
61	S	40W	48WSW	31WSW*31W	*34WSW	28WNW	33SSW*42SW	*36NNW*43SW	*39SW	49	SW	49	
62	WSW	61ENE	52SW	32SSW	46NW	37SW	*32SW	30N	*39S	*33W	*28N	39WNW*56	WSW 62
63	ENE*41ESE	*26WSW*38SSE	34SSW*31WNW	32SSW	27WSW*37SW	*34SW	*26WSW	46SW	28	WSW	46		
64	WNW	27W	23WNW	32NNE	31WSW	39ENE	26WSW	29SSW	29WSW	35SW	32W	35WNW	40
65	WSW	40W	38SW	29WNW	37W	37WSW	41WSW	30WNW	30S	41S	36WSW	45WNW	51
66	W	36SW	41W	50N	34WSW	42WNW	33SW	34SW	38WSW	37SE	30WNW	44S	42
67	WSW	32SW	51WNW	37NNW	35S	36SW	32WSW	37W	27SW	43W	43WNW	34N	29
68	WSW	39ESE	29NNW	40SW	36WSW	33SW	3518/	5129/	3123/	3923/	2934/	3425/	36
69	14/	3325/	3675/	3327/	4429/	3036/	7829/	3036/	3225/	3232/	3025/	3718/	31
70	30/	2729/	4630/	3534/	3330/	3330/	3529/	3625/	4024/	4031/	4526/	5030/	39
71	21/	3231/	4029/	3011/	3014/	2730/	3227/	2925/	3127/	2920/	3533/	4024/	35
72	33/	4417/	3728/	4029*	3225/	4221/	3332*	23	35*	2730/	4821/	41	
73	24/	2729/	3733/	3628/	4830/	3635/	2729/	2426/	3633/	3328/	3829/	3632/	42
74	27/	5420/	4429/	35 6/	26 2/	2627/	3830/	3929/	3023/	4829/	4029/	4227/	46
75	24/	5529/	3020/	3329/	40 3/	3832/	3323/	2830/	2824/	4630/	3834/	4332/	40
76	28/	6536/	4026/	3232/	3329/	3530/	3120/	2532/	2610/	5025/	3919/	3816/	31
77	25/	4120/	3730/	4130/	47 6/	3333/	3428/	2923/	3121/	3427/	4030/	5424/	45
78	36/	5126/	3028/	4534/	3132/	30 2/	26 2/	2622/	2429/	3725/	2721/	40 7/	35
79	21/	42 3/	3823/	3922/	3921*	3534*	3132/	2622/	4328/	3110/	2723/	3425/	45
80	16/	4022/	2923/	4033/	33 4/	2518/	3033/	3232/	3024/	37 4/	3826*	4030/	43
81	29/	4721*	3821*	38 2*	4220/	3421/	3029/	28 2*	2822/	3422/	3529*	41 2*	35
82	1*	3620/	3728/	4525/	3331/	3630/	27 2*	2721/	3436*	23	18*	3527/	54
83	27/	4726*	4828/	4636/	3829/	28							
MEAN	42.1	38.3	37.7	36.8	33.3	31.8	31.4	31.5	37.3	35.6	40.7	40.6	50.3
SD	10.663	7.457	6.104	6.153	4.854	4.031	5.933	4.869	6.181	5.824	5.750	7.149	6.241
TOTAL OBS	725	659	726	719	755	708	700	692	647	674	671	718	8398

NOTES \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-883 (OLA)

S (BASED ON LESS THAN FULL MONTHS AND +100 KNOTS)

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 75521 ALCONBURY RAF UK STATION NAME 78-77,79,82-83 YEARS 1978  
CLASS ALL WEATHER MONTH 0000-0200  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		.7	1.0	.2								1.9	7.9
NNE			.2	.2								.5	10.0
NE	.2	.5	.7	.2								1.7	7.7
ENE			.2	.2								.5	11.2
E		.5			.2							.7	9.0
ESE	.2	1.2	.5	.5	.2							2.6	8.2
SE	.2	.5	1.2	1.2								3.1	9.8
SSE	.7	1.2	1.2	1.7	.5							5.0	9.1
S	1.2	3.3	4.5	4.8	1.9	.2						16.2	10.5
SSW	1.4	3.1	3.3	2.6	.2							1.7	8.1
SW	.7	3.1	4.3	2.9	.5							11.5	8.9
WSW	.5	3.6	5.0	3.8	1.2	.2						14.3	10.0
W	1.0	3.1	4.5	5.3	.5							14.3	9.6
WNW	.2	1.0	1.0	1.0	.2	.5	.5	.2				4.5	14.5
NW		1.2	1.4	.5			.2					3.3	9.8
NNW	.5	.2	.5	1.7	1.0							3.8	12.2
VARB			.2									.2	8.0
CALM												5.0	
	6.7	23.2	29.6	26.7	6.8	1.8	.7	.2				100.0	9.3

TOTAL NUMBER OF OBSERVATIONS 418

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 75621 ALCONSBURY RAF UK STATION NAME 74-83 YEARS 1977  
ALL WEATHER CLIM 0700-0500  
 CONDITION CLIM

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	2.4	1.5	.5		.4						5.8	7.4
NNE	.3	.3										.5	3.5
NE	.5	.8	.7									2.0	5.5
ENE	.1	.3	.1	1.3								1.9	11.1
E		.5	.5	.7								1.7	9.9
ESE	.3	.3	.5	.4								1.5	7.1
SE	.1	.1	.4	.5	.3							1.0	11.0
SSE	.1	1.6	1.5	1.1	.1							4.4	8.3
S	1.5	2.9	3.6	3.4	1.2	.5						13.2	10.0
SSW	2.2	3.0	3.0	2.6	.7	.1						12.2	6.0
SW	.2	3.4	5.1	4.4	.4							14.2	8.9
WSW	1.1	3.0	3.6	2.6	.4	.3						11.9	8.9
W		2.3	4.8	4.0	.5		.1					11.8	10.3
WNW	.4	1.1	1.5	1.3	.9	.1	.1					5.5	11.0
NW	.7	.1	1.2	.2	.1							3.0	8.7
NNW	.1	.1	1.5	1.7	.5							4.6	10.9
VARBL			.3		.1							.4	11.7
CALM												4.7	
	9.9	23.5	29.8	25.4	5.4	1.5	.3					100.0	8.7

TOTAL NUMBER OF OBSERVATIONS 788

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 075621 ALCONBURY RAF UK 74-83 JAN  
STATION NAME YEARS MONTH  
CLASS ALL WEATHER 600-800  
CONDITION HOURLY (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	2.4	1.2	.9	.1	.1						5.9	7.2
NNE	.2	.4	.4									1.2	4.9
NE	.4	.4	.6	.1								1.5	6.1
ENE	.2			.6	.1							1.1	11.3
E	.2	.2	.6	.9								2.7	9.7
ESE	.1	.2	.4	.2								1.0	7.3
SE	.1	.2	.6	1.0	.1	.4						2.9	11.7
SSE	.5	1.2	1.3	1.2	.1							4.4	8.4
S	1.1	3.8	3.7	3.0	.9							12.4	8.7
SSW	1.5	4.1	2.7	1.8	.7	.2						11.2	8.4
SW	1.6	4.0	3.9	5.2	1.0							15.7	9.2
WSW	.9	2.0	3.8	3.5	.4							11.5	8.9
W	.7	1.4	3.2	4.3	1.0	.1						10.9	10.5
WNW	.4	.5	1.2	1.6	.6	.1						4.5	11.2
NW	.7	.9	1.5	.9								3.9	8.3
NNW	.1	.2	1.5	1.5	1.0	.1						4.9	11.7
VARBL			.1	.1	.1	.2						.6	17.6
CALM												4.0	
	9.8	24.6	26.6	26.8	6.1	1.2	.2					100.0	8.8

TOTAL NUMBER OF OBSERVATIONS 820

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AFR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 055421 ALCONBURY RAF UK STATION NAME 74-83 YEARS 1950-1999  
CLIM ALL WEATHER CLIM 999-1100  
CONDITION HOURS (LST)

SPEED (KNTS) DIR	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.2	2.3	1.2	1.5	.6							.63	7.6
NNE	.6	.5	.3	.1								1.5	5.2
NE												.7	4.5
ENE	.1	.1	.2	.7	.2							1.4	11.8
E	.3	.2	.9	.6	.1							2.4	9.4
ESE	.1	.1	.6	.2	.1							1.2	9.2
SE	.1	.3	.3	1.2	.1							2.1	11.2
SSE	.5	.7	1.4	1.9	.3							4.6	9.9
S	.9	3.4	2.7	3.5	.8							11.3	9.2
SSW	1.3	3.5	7.4	3.3	.6	.5						12.5	9.2
SW	.8	3.7	3.6	5.5	1.7	.1	.1					14.4	10.3
WSW	.6	2.7	4.5	4.9	.5	.2						12.7	10.1
W	.9	.9	3.8	4.7	1.7	.2						1.9	11.1
WNW		.2	1.4	1.4	1.2	.5	.2					5.6	13.7
NW	.1	.7	1.4	1.7	.5							4.2	10.7
NNW	.5	.7	1.4	1.2	.6	.7						4.7	1.5
VARBL			.7	.5	.1							.8	13.4
CALM												2.8	
	8.0	20.4	27.5	31.3	7.8	1.2	.3					107.0	9.8

TOTAL NUMBER OF OBSERVATIONS 859

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 125621 ALCONBURY RAF UK STATION NAME YEARS 74-83 MONTHS JAN  
ALL WEATHER CLASS 1700-1400 HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.7	2.4	1.9	1.1	.1	.1						6.2	7.9
NNE	.3	.7	.9	.1								2.2	6.3
NE	.1	.7		.2								.7	8.2
ENE	.1	.1	.1	.7								1.4	9.3
E	.2	.7	.1	1.7	.3	.1						2.7	12.7
ESE	.7	.1	1.1	.1								1.6	7.7
SE	.1	.4	.8	.9	.4							2.6	10.9
SSE	.4	.7	.7	1.4	.7	.7						4.3	11.1
S	1.6	1.1	3.5	7.4	1.1	.2						1.9	12.2
SSW	.9	2.4	2.9	2.1	.9	.1						9.2	9.3
SW	.3	1.0	3.0	6.0	.9	.2						12.3	11.1
WSW	.8	2.1	3.5	4.4	1.1	.1						12.2	12.3
W	.2	1.0	4.5	6.4	1.9	.5	.3	.2				15.6	12.8
WNW	.1	1.1	1.4	2.1	1.6	1.3						7.7	14.1
NW		.8	.5	1.6	.3	.4	.1					3.8	13.3
NNW	.7	.9	1.2	1.8	.8	.1						4.9	11.0
VARBL				.2	.4							.7	16.9
CALM												7.1	
	6.4	17.4	46.7	33.4	17.5	7.6	.4	.2				100.0	10.7

TOTAL NUMBER OF OBSERVATIONS 912



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

75621 ALCONBURY RAF UK 74-83 JAN  
STATION MONTH  
ALL WEATHER CLASS 1540-1700  
HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.9	2.1	1.5	1.2	.3	.1	.1	.1				4.3	9.2
NNE	.7	1.7	.2									1.5	5.0
NE	.1	.8	.3									1.2	5.4
ENE		.5	.1	.9								1.5	10.1
E	.3	.5	.3	.8	.7							2.3	16.2
ESE		.8	.5	.1		.7						1.6	9.4
SE		.5	1.7	.8		.1						2.4	10.1
SSE	.7	.4	1.4	1.4	.2		.2					4.4	9.9
S	.9	2.0	3.5	3.1	1.3	.7						12.6	16.2
SSW	.1	2.5	3.1	2.7	.3	.1	.1					7.9	8.9
SW	.8	3.7	5.7	3.7	.9							13.9	9.2
WSW	.5	2.4	4.7	3.0	.8							1.8	9.5
W	.9	2.8	4.6	4.2	2.1	.7						14.9	16.4
WNW	.5	1.7	1.4	2.1	.8	.7						4.9	11.9
NW	.2	.9	1.3	1.1	.3	.1						3.9	12.2
NNW	.2	.7	1.1	1.4	.7	.1						3.6	16.7
VARBL				.2								.2	13.5
CALM												7.9	
	7.4	21.9	30.3	26.6	7.5	1.9	.4	.1				100.0	9.8

TOTAL NUMBER OF OBSERVATIONS 915

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

075621  
STATION

ALCONBURY RAF UK  
STATION NAME

74-83  
YEARS

JAN  
MONTH

ALL WEATHERED  
CLASS

1800-2000  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.6	1.4	1.3	.5	.4		.3	.1				5.6	8.5
NNE		.7	.5									1.2	6.7
NE	.1	.1	.4	.3								.9	7.4
ENE	.1	.1	.5	.9								1.7	10.7
E		.7	.5	.1	.1							1.0	13.1
ESE	.1	.7	.5	.4	.4							2.1	16.2
SE	.1	.0	.7	.7		.1						2.5	9.4
SSE	.3	1.3	1.4	1.6								4.6	8.3
S	.5	2.1	4.8	3.8	.8							12.2	9.8
SSW	1.7	3.3	2.7	2.5	.7							17.8	8.0
SW	.9	4.9	5.6	3.6	.5	.5	.1					16.3	9.1
WSW	.4	3.5	4.2	2.6	.4							11.1	8.7
W	.5	2.5	3.0	2.8	1.0	.3	.3					11.3	11.0
WNW	.5	1.7	2.0	1.4	.3	.5		.1				6.5	10.4
NW	.3	.8	1.2	.8								3.7	8.4
NNW		.4	1.4	1.3	.5							3.6	11.0
VARBL			.3									.3	11.0
CALM												5.7	
	7.2	24.6	30.2	24.8	5.1	1.6	.7	.3				100.0	8.8

TOTAL NUMBER OF OBSERVATIONS

769

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 075621 ALCONBURY RAF UK STATION NAME 74-83 YEAR JAN MONTH 01-0-2396  
CLASS ALL WEATHER HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	1.3	.9	.8		.1	.3					4.3	8.9
NNE		.3	.3	.3								1.3	6.9
NE		.1	.1	.7								.9	15.4
ENE		.4	.4	1.3								.1	15.4
E	.1		.4	.3								.8	9.3
ESE	.3	.4	.3	.4	.4							1.7	14.3
SE	.1	.7	.5	.4	.3							2.1	9.3
SSE	.5	1.3	2.3	1.1								5.2	7.7
S	1.1	2.5	4.7	3.3	.9							11.9	9.3
SSW	1.5	3.5	3.9	2.1	.7							11.8	8.1
SW	.9	2.7	5.9	3.1	1.5	.4						14.5	9.9
WSW	.8	3.2	4.1	3.7	.7	.3		.1				13.0	9.7
W	.9	2.8	3.3	3.7	.8	.1			.1			11.9	9.9
WNW	.3	1.6	1.3	1.2	.3	.3	.1		.1			5.2	11.3
NW	.1	.0	1.5	.7		.1						3.3	9.1
NNW	.3	.4	1.1	.7	1.2							3.6	11.8
VARBL													
CALM												6.3	
	7.9	22.8	30.4	23.8	6.7	1.3	.4	.1	.3			100.0	8.9

TOTAL NUMBER OF OBSERVATIONS 787

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 75621 STATION NAME ALCONBURY RAF UK YEAR 74-63 MONTH JAN  
CLASS ALL WEATHER  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	2.1	1.3	.8	.2	.1	.1	.2				5.5	6.1
NNE	.2	.5	.4	.1								1.3	5.8
NE	.2	.5	.3	.2								1.1	6.6
ENE	.1	.3	.2	.9	.7							1.5	10.6
E	.2	.3	.4	.7	.1	.1						1.7	10.5
ESE	.2	.4	.6	.3	.1	.7						1.6	8.8
SE	.1	.7	.7	.8	.2	.1						2.4	10.5
SSE	.5	1.1	1.4	1.4	.2	.7	.0					4.6	9.2
S	1.1	2.6	3.7	3.4	1.1	.7	.0					12.0	9.7
SSW	1.4	3.7	3.1	2.5	.6	.1	.7					11.0	8.5
SW	.9	3.2	4.6	4.4	.8	.2	.7					14.2	9.6
WSW	.7	2.7	4.1	3.6	.6	.1		.0				11.9	9.5
W	.6	2.2	4.0	4.4	1.2	.7	.1	.3	.0			12.7	10.9
WNW	.3	1.1	1.4	1.6	.8	.5	.1	.2	.0			5.9	12.3
NW	.3	.8	1.2	1.0	.7	.1	.0					3.6	10.0
NNW	.2	.5	1.2	1.4	.7	.1						4.3	11.1
VARBL			.1	.2	.1	.1						.9	14.4
CALM												4.3	
	7.9	22.1	28.7	27.6	7.1	1.9	.4	.1	.2			100.3	9.3

TOTAL NUMBER OF OBSERVATIONS 6185

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 05421 ALCONBURY RAF UK 74-78-82-83 YEARS FEB  
STATION NAME CLASS MONTH  
ALL WEATHER  
CONDITION 0000-0200  
MOON (L.F.F.)

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.5	1.0	2.3	.8	.3							5.8	7.0
NNE	1.0	1.8	2.8									5.5	6.1
NE	.3	1.3	2.0	.3								3.8	6.7
ENE	1.0	2.0	2.5	.8								6.3	6.7
E	1.3	2.3	2.8									6.3	6.1
ESE	.8	.8	.5	.3								2.3	5.3
SE	.5	2.0	1.8	1.8								6.0	7.6
SSE	.5	1.3	1.8	2.0								5.5	8.5
S	2.3	3.8	4.3	2.0	1.3							13.6	7.9
SSW	.3	3.8	2.0	2.8								8.8	8.2
SW	.5	2.0	3.0	3.5	.5							9.5	9.6
WSW	1.5	1.5	2.5	1.0	.3							6.8	7.1
W	.8	.8	1.5	2.5	.3							5.8	10.0
WNW		.5	.3	1.5								2.3	10.8
NW				.3								.3	13.0
NNW	.8	.3		.3	.3							1.5	7.7
VARBL													
CALM												10.1	
	12.8	24.9	29.9	19.6	2.8							100.0	7.0

TOTAL NUMBER OF OBSERVATIONS 198

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# **SURFACE WINDS**

## **PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)**

035621  
STATION

ALCONBURY RAF UK  
STATION NAME

74-83  
YEAR

FEB  
MONTH

ALL WEATHER  
CLASS

0300-0500  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.9	2.2	1.6	1.0	.6							7.3	7.2
NNE	.9	1.3	1.6	1.2	.3							5.3	8.1
NE	.3	2.2	3.2	.9	.4							7.3	8.0
ENE	.4	2.2	2.2	.9								5.7	7.2
E	1.2	3.2	2.9	.4								8.4	6.2
ESE	.6	2.2	.6									3.4	4.9
SE	.7	1.8	1.5	1.8								5.7	7.7
SSE	.4	1.5	1.7	.6								3.8	6.5
S	1.6	2.8	3.8	2.3	.9	.1						11.6	8.6
SSW	.7	3.4	2.1	1.6	.4	.1						8.4	8.1
SW	.9	2.8	1.3	2.1								7.0	7.6
WSW	.6	1.6	2.2	1.2	.6							6.2	9.0
W	.4	1.0	2.3	1.2	.3							5.4	9.1
WNW	.1	1.3	1.6	.7								3.6	7.8
NW	.4	.3	1.7	.7								2.5	8.6
NNW	.6	.7	.4	.2	.1							1.6	6.5
VARBL				.1								.1	15.0
CALM												6.7	
	11.9	30.9	29.5	17.0	3.7	.3						100.0	7.2

TOTAL NUMBER OF OBSERVATIONS

682

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIP WEATHER SERVICE/PAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

75621 ALCONBURY RAF UK 74-83 FEB 1987  
STATION STATION NAME YEARS  
ALL WEATHER 7600-7800  
CLASS HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	1.8	2.0	.9	.3	.3						6.3	8.3
NNE	1.2	2.4	1.4	.8	.3							6.1	6.9
NE	.8	2.5	3.0	.7		.4						7.4	7.7
ENE	.3	1.3	2.6	1.2								5.4	8.2
E	2.0	2.6	3.0	.7								8.3	6.3
ESE	.7	1.2	1.8			.1						3.8	6.8
SE	.1	1.0	1.7	.4								4.1	7.1
SSE	.5	1.6	2.0	.9								5.0	7.7
S	2.0	2.2	3.7	3.7	.7	.1						12.4	8.8
SSW	.7	1.6	1.8	1.6	.3	.2	.1					6.3	9.8
SW	1.2	1.8	3.2	1.4								7.6	7.7
WSW	1.6	2.1	2.2	1.4	.3							7.6	7.1
W	1.1	1.6	2.0	1.1	.1	.1						5.9	7.7
WNW	.7	1.2	1.1	.4								3.3	6.2
NW		1.2	.5	.4								2.1	7.9
NNW	.5		.3	.5	.1							1.4	8.4
VARBL													
CALM												7.0	
	14.2	27.0	32.4	16.1	2.0	1.3	.1					100.0	7.2

TOTAL NUMBER OF OBSERVATIONS 760

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIP WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

35621  
STATION

ALCONBLRY RAF UK  
STATION NAME

74-83  
YEARS

FEB  
MONTH

ALL WEATHER  
CLASS

2900-1100  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	1.9	1.9	1.0	.6	.3						6.4	9.1
NNE	1.4	1.6	1.9	.4	.1							5.4	6.6
NE	.3	1.4	1.8	1.3	.1	.3						5.0	9.2
ENE	1.0	2.1	3.7	2.1	.1							9.1	8.0
E	.5	2.1	2.9	1.4								6.9	8.0
ESE	.8	.6	1.6	.8	.3	.1						4.2	8.7
SE	.3	1.1	2.0	.3								3.7	7.2
SSE	.6	1.4	2.5	1.9								6.4	8.7
S	1.0	1.5	4.2	3.4	.6							10.7	9.5
SSW	1.4	1.8	3.1	3.0	.6	.9						10.8	10.4
SW	.1	1.4	2.3	2.0	.3							6.0	9.3
WSW	.4	1.4	2.6	1.8		.3						6.4	9.4
W	.4	1.1	1.3	1.6	.3	.3						4.9	10.0
WNW	.5	.8	1.5	1.0								3.8	7.9
NW	.4	.1	.8	.3								1.5	7.8
NNW	.5	.5	1.1	.6	.3							3.0	8.3
VARBL			.4	.4								.8	10.8
CALM												4.9	
	10.3	20.8	35.5	23.2	3.3	2.0						100.0	8.4

TOTAL NUMBER OF OBSERVATIONS

794



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

35621  
STATION

ALCONBURY RAF UK  
STATION NAME

74-83  
YEARS

FEF  
MONTH

ALL WEATHER  
CLASS

1200-1400  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	1.3	2.1	1.1	.8	.4						6.1	10.8
NNE	.4	1.0	1.9	.8	.4							4.4	8.9
NE	.2	1.1	2.6	1.6	.1	.4						6.2	9.8
ENE	.2	1.4	2.9	3.2	.2							8.7	9.7
E	.5	1.6	2.6	1.6								6.2	7.8
ESE	.5	.7	1.3	1.6	.4							4.4	9.8
SE	.6	1.2	1.6	1.3	.1	.1						4.9	8.8
SSE	.7	1.3	2.9	1.6	.4							6.8	8.7
S	1.0	.6	4.1	4.1	.8	.1						10.6	10.5
SSW	.7	1.7	1.7	3.5	.8	.2	.1					8.7	11.0
SW	.2	1.4	2.1	2.9	.8	.2						7.8	11.0
WSW	.4	1.4	1.6	1.8	.6							5.7	9.6
W	.1	1.0	1.9	2.0	1.0	.1	.2					6.3	12.2
WNW	.1	.6	.7	.8	1.0							3.2	12.0
NW	.1	.4	1.2	.8	.2							2.7	10.1
NNW	.1	.2	1.9	.4	.4							3.0	10.1
VARBL		.1	1.7	.2	.2							2.3	9.7
CALM												2.9	
	6.2	16.9	34.7	29.1	8.2	1.6	.4					100.0	9.8

TOTAL NUMBER OF OBSERVATIONS 838

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 35621 ALCONBURY RAF UK STATION NAME 74-83 YEARS FEB MONTH 1500-1700 HOURS (L.S.T.)  
ALL WEATHER CLASS  
CONDITION

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	.8	1.9	1.8	.4	.2						5.7	10.2
NNE	.5	1.2	1.7	1.3		.4						5.0	9.3
NE	.5	1.2	3.0	1.7	.1	.2						6.7	9.2
ENE	.5	1.9	3.7	3.0	.2							9.3	9.1
E	1.3	2.2	2.9	1.1								7.4	6.8
ESE	.6	.5	1.1	1.7	.5							4.3	10.1
SE	.4	1.2	1.0	1.6	.1							4.2	9.1
SSE	.2	1.0	2.9	2.0	.2							6.3	9.4
S	1.0	2.0	4.1	2.2	.7	.2						10.2	9.2
SSW	.7	1.1	2.3	2.7	.6							7.4	10.1
SW	.5	1.4	1.8	2.6	1.0							7.3	10.2
WSW	.5	1.4	1.4	1.9	.2	.1						5.6	9.2
W	.4	1.7	2.2	1.9	.4	.2						6.7	9.6
WNW	.4	.6	.7	1.1	.5	.1						3.3	10.6
NW	.1	.4	1.0	.7								2.2	9.3
NNW	.1	.7	1.0	.4	.4							2.5	9.4
VARBL			.2	.7	.1							1.1	12.0
CALM												4.8	
	8.1	19.2	32.6	28.3	5.4	1.6						100.0	8.9

TOTAL NUMBER OF OBSERVATIONS 837

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

75621 ALCONBURY RAF UK

74-83

FFS  
GORTS

ALL WEATHER  
CLASS

1800-2000  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	1.0	1.7	1.3	.6							6.5	8.1
NNE	1.4	1.4	2.6	.7	.1	.1						6.4	7.5
NE	.9	1.4	1.7	.9								4.8	7.1
ENE	.9	2.4	4.3	2.3								9.8	8.7
E	2.1	3.0	2.1	.9								8.1	6.0
ESE	.7	1.7	.7	.4	.3							3.4	7.2
SE	.6	2.1	2.1	2.6	.4							7.8	9.1
SSE	1.3	1.6	2.4	1.0	.1	.1						6.5	7.5
S	.7	2.6	3.4	2.3	.6	.3						9.8	9.2
SSW	1.0	1.3	1.7	2.6	.6	.1						7.2	9.8
SW	1.0	1.3	2.1	1.8	.3							6.5	8.4
WSW	.6	1.7	1.1	1.8								4.8	8.6
W		2.0	2.0	1.0	.1	.1						5.2	8.8
WNW		1.1	1.0	.6	.1							2.8	8.3
NW	.3	.6	.7	.3	.1							2.0	7.6
NNW	1.0	.6	.4	.1	.4							2.6	7.3
VARBL		.7	.1	.1	.3							.9	11.7
CALM												4.8	
	13.5	26.0	10.2	20.6	4.1	.9						100.0	7.8

TOTAL NUMBER OF OBSERVATIONS

705

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 175621 ALCONBURY RAF UK YEARS 74-82 MONTH FEB  
DATE 2100-2300 HOURS (L.S.T.)  
CLASS ALL WEATHER  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	1.5	2.2	.9	.6							6.1	6.2
NNE	.7	2.0	3.4	.4	.1							6.7	7.0
NE	.7	2.0	1.5	1.0	.4							5.7	8.0
ENE	.4	2.2	1.9	1.0								5.6	7.0
E	1.8	2.2	2.6	.6								7.2	6.3
ESE	.6	1.7	1.5	.3								3.7	5.9
SE	.6	1.8	2.2	.4	.4							5.0	6.5
SSE	1.6	3.4	3.5	1.6	.1	.1						10.4	7.4
S	.7	1.6	2.9	2.8	.3	.1						8.5	9.4
SSW	.9	1.6	2.5	2.5	1.0	.3						8.8	10.2
SW	.1	2.2	2.0	1.9	.3							6.6	9.1
WSW	.9	1.1	2.2	1.2								5.3	7.9
W	.3	2.0	1.5	1.9	.1							5.6	8.6
WNW	1.3	1.5	1.0	.7								4.5	6.1
NW	.7	.3	.1	.4								1.6	6.2
NNW	.4	.7	.1	.6								1.9	7.4
VARBL													
CALM												6.7	
	12.9	26.9	31.1	18.3	3.5	.6						100.0	7.4

TOTAL NUMBER OF OBSERVATIONS 689

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 5621 ALCONBURY RAF UK YEARS 74-83 FFB MONTHS ALL  
STATION NAME CLASS ALL MONTHS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	1.5	1.9	1.1	.5	.2						6.3	8.7
NNE	.9	1.6	2.1	.8	.2	.1						5.6	7.6
NE	.5	1.6	2.4	1.1	.2	.2						5.9	8.9
ENE	.6	1.9	3.7	1.9	.1							7.5	8.2
E	1.3	2.4	2.7	.9								7.4	6.7
ESE	.6	1.1	1.2	.7	.2	.7						3.8	7.8
SE	.5	1.7	1.7	1.2	.1	.7						5.1	8.3
SSE	.7	1.6	2.4	1.4	.1	.7						6.4	8.1
S	1.2	2.8	3.8	2.9	.7	.1						10.8	9.2
SSW	.8	1.9	2.2	2.5	.6	.3	.7					8.3	9.9
SW	.6	1.8	2.2	2.2	.4	.7						7.2	9.2
WSW	.7	1.5	1.9	1.6	.2	.1						6.7	8.5
W	.4	1.4	1.8	1.6	.3	.1	.7					5.8	9.6
WNW	.4	.9	1.7	.8	.2	.7						3.4	8.5
NW	.3	.4	.7	.5	.1							2.0	8.5
NNW	.5	.4	.7	.4	.2							2.3	8.4
VARBL		.1	.4	.2	.1							.7	10.8
CALM												5.7	
	11.2	23.7	32.3	22.0	4.3	1.1	.1					100.0	8.1

TOTAL NUMBER OF OBSERVATIONS 5698

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 75621 STATION NAME ALCONBURY RAF UK YEARS 74-80, 82-83 MAP NORTH  
ALL WEATHER CLASS 0000-0200 HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.1	2.7	5.1	2.8								11.4	8.1
NNE	1.3	1.8	2.2	2.7	.7							8.3	9.0
NE	.9	2.6	2.7	1.3								6.9	7.9
ENE	.4	1.1		.2								1.8	5.1
E	1.3	2.7	1.1	.2								5.4	5.2
ESE	.4	1.1	.7	.4								2.7	6.4
SE	.4	.2	.9	.2								1.8	7.5
SSE	.4	1.8	.9	.9								4.0	7.4
S	1.1	3.6	5.6	1.8	.2	.2						12.5	7.6
SSW	2.0	1.8	1.8	1.1	.2							6.9	6.9
SW	.9	2.2	2.5	.4	.4	.2						6.7	8.0
WSW	.4	1.3	4.2	3.3								9.4	9.6
W	1.1	3.3	.7	1.8	.2							7.1	7.4
WNW	.2		.4	2.2	.2							3.1	11.2
NW		1.1	.9	.7								3.1	7.4
NNW	.2	1.1	2.2	.7								4.2	8.3
VARBL													
CALM												4.7	
	12.5	27.2	31.9	20.5	2.0	.4						100.0	7.5

TOTAL NUMBER OF OBSERVATIONS 498

CENTRAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 5421 ALCONBURY RAF UK STATION NAME 74-83 YEARS MAP  
ALL WEATHER 0300-0501  
 CLASS NOVIE (L.S.T.)  
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.1	3.6	1.9	.5							9.2	9.2
NNE	.5	1.4	2.6	2.6	.5	.3						7.8	10.1
NE	.1	.5	1.1	.8								2.7	9.1
ENE	.5	1.7	.4	.4								2.3	6.1
E	.6	1.4	1.8									3.8	6.3
ESE	.4	.2	.8	.3								2.2	6.7
SE		.3	.8	.6								1.7	9.5
SSE	.4	1.6	1.3	.1								3.6	5.5
S	1.4	2.9	4.0	2.0	.3							10.6	7.8
SSW	1.3	4.2	2.3	1.7	.4	.1						12.0	7.5
SW	1.1	3.8	4.7	1.8	.4							11.9	7.9
WSW	1.1	2.7	4.1	3.2	.1	.3						11.7	9.0
W	.3	1.4	2.7	2.3	.5							7.2	10.0
WNW	.9	.9	1.7	1.1								4.6	8.2
NW	.4	1.1	1.1	.3	.1							3.1	7.0
NNW	.3	.4	2.3	1.4	.3							4.6	10.1
VARBL				.3								.1	12.0
CALM												4.0	
	13.3	26.2	35.1	27.7	3.1	.6						100.0	8.0

TOTAL NUMBER OF OBSERVATIONS 783

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 75621 ALCONBURY RAF UK STATION NAME 74-83 YEARS MAR  
MONTH 0000-0800  
CLAS ALL WEATHER  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	1.3	3.4	2.7	.5							9.2	9.2
NNE	.1	1.6	1.9	1.6	.6	.1						6.7	9.8
NE	.1	1.2	1.2	1.3	.1							3.9	9.5
ENE	.1	.9	1.6	.1								2.7	7.3
E	.6	.9	1.1	.1								2.7	6.5
ESE		.7	.7	.1								1.5	7.5
SE	.4	.9	1.3	1.1								3.7	8.1
SSE	.4	1.1	1.9	1.2								1.5	8.1
S	.7	3.3	3.4	3.4								1.6	8.5
SSW	1.9	4.1	2.5	1.5	.1	.5						10.7	7.8
SW	.8	3.1	4.5	3.5	.6							12.5	9.0
WSW	.7	1.3	3.1	2.5	.7	.1						7.9	9.0
W	.2	2.7	3.2	2.1	.7	.2						8.5	10.1
WNW	.2	1.1	1.4	.7	.7							3.7	8.8
NW	.1	1.1	1.3	1.1	.1							3.7	8.9
NNW			3.5	1.4	.4	.1						5.4	10.8
VARBL				.2								.2	13.0
CALM												2.7	
	7.4	24.5	35.9	24.7	3.5	1.2						100.0	8.6

TOTAL NUMBER OF OBSERVATIONS 849



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR FATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 75621 STATION NAME ALCONBURY RAF UK YEARS 74-83 MAP NORTH  
CLASS ALL WEATHER HOURS (L.S.T.) 0900-1100  
CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	.7	2.7	4.7	1.3	.1						12.0	11.7
NNE	.2	.2	2.4	1.1	.9	.1						4.9	11.6
NE	.2	1.2	1.5	2.2	.1							5.3	9.7
ENE	.1	.4	1.2	.8								2.6	9.2
E	.3	.3	1.3	1.7								3.6	9.5
ESE	.2	.7	.9	.4								2.2	7.8
SE	.2	.4	.7	1.2								2.6	9.3
SSE		.3	1.9	1.6	.2							4.0	10.3
S	.3	2.4	4.0	4.5	.4							11.7	10.0
SSW	.8	1.7	3.3	3.0	.7	.2						9.7	10.1
SW	.3	.9	2.5	3.8	.9	.2						8.7	11.5
WSW	.1	.8	2.4	3.4	.8							7.4	11.5
W		1.1	2.4	4.3	1.9	.9						10.6	13.5
WNW	.1	.4	1.7	1.7	1.1	.4	.1					5.6	13.2
NW		.6	1.0	1.5	1.7	.1						4.2	12.6
NNW	.1	.3	1.5	1.8	.3							4.0	11.3
VARBL			.8	.9	.3							2.0	12.8
CALM												1.1	
	3.6	12.6	32.0	38.3	10.1	2.1	.1					100.0	11.0

TOTAL NUMBER OF OBSERVATIONS 890

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

35621  
STATION

ALCONBURY RAF UK

STATION NAME

74-83

YEARS

MAC  
MONTH

ALL WEATHER  
CLASS

1200-1400  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.4	.5	4.4	5.1	.8							11.2	11.1
NNE	.2	.3	1.0	1.6	1.5	.2						4.8	13.4
NE		.4	1.6	1.9	.4							4.4	11.2
NNE	.1	.7	1.1	.5	.7							2.4	9.8
E	.4	.6	1.1	1.2								3.3	8.7
ESE	.2	.5	.5	.8	.1							2.2	9.0
SE	.3	.3	.9	1.4								2.9	10.1
SSE	.1	.5	1.5	1.9	.6							4.7	11.7
S	.6	1.2	2.7	3.2	1.1	.1						8.9	10.9
SSW	.1	.9	1.7	3.9	1.1	.5						8.2	12.8
SW	.1	.5	1.8	5.2	.5		.1					8.4	11.9
WSW	.5	.4	1.5	3.3	1.6	.1	.1					7.6	13.0
W		.6	2.3	4.6	2.6	.9						11.0	14.3
WNW		.4	1.2	2.3	1.3	1.0	.1					6.2	15.0
NW		.5	1.7	1.0	.6	.4						4.3	12.3
NNW	.5	.6	1.7	1.7	.2							4.8	9.6
VARBL		.1	2.2	1.1	.4	.3						4.1	11.8
CALM												.5	
	3.8	9.1	28.8	40.6	13.2	3.5	.3					100.0	11.9

TOTAL NUMBER OF OBSERVATIONS

930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION WIS621 ALCONBURY RAF UK STATION NAME 74-83 YEARS MAP  
MONTHS 1500-1700  
HOURS (L.S.T.)  
ALL WEATHER  
CLIM  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 56	%	MEAN WIND SPEED
N	.5	1.2	3.1	3.0	.4							3.4	9.5
NNE	.3	.9	2.0	3.1	1.4	.1						7.8	12.1
NE	.3	.3	1.2	3.6	.1							5.5	11.2
ENE	.2	.2	.7	.7	.3							2.1	10.3
E	.2	.0	2.1	1.1	.1							4.3	8.8
ESE	.4	1.0	.8	.9								3.0	8.0
SE	.2	.4	.7	1.0	.1	.1						2.5	10.3
SSE	.2	.3	1.5	1.5	.3	.1						4.0	10.8
S	.3	1.2	2.5	2.9	1.0							7.9	10.5
SSW	.4	1.1	2.2	3.1	1.0	.5						8.4	11.6
SW	.2	.8	3.5	5.1	1.0							10.5	11.9
WSW	.2	.9	2.4	2.6	1.0							7.0	11.5
W	.2	1.1	2.3	5.6	2.0	.3	.2					11.7	13.3
WNW	.1	.4	1.0	2.6	1.0	.5						5.6	13.8
NW	.5	1.2	1.5	1.1	.4	.1						4.9	9.4
NNW	.1	.9	1.4	.7	.1							3.1	8.6
VARBL			1.2	.3	.1							1.6	9.8
CALM												1.5	
	4.7	12.7	29.8	39.9	10.3	1.8	.2					100.0	10.9

TOTAL NUMBER OF OBSERVATIONS 922

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

035621  
STATION

ALCONBURY RAF UK  
STATION NAME

74-83  
YEAR

MAR  
MONTH

ALL WEATHER  
CLASS

1800-2000  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.6	1.3	3.3								7.2	9.0
NNE	.3	.9	2.8	2.7	.9							7.5	11.0
NE	.5	1.0	1.9	2.2								5.6	8.9
ENE	.8	1.7	1.4	1.1	.1							4.4	7.7
E	.9	.8	1.6	.8	.1							4.2	7.2
ESE	.3	1.7	1.3	.5								3.7	7.3
SE	.3	.8	.8	1.4								3.4	6.9
SSE	.5	.6	1.5	.8								3.4	7.8
S	1.4	2.8	3.3	2.2	.1							9.7	7.9
SSW	1.0	2.2	2.4	2.3	.9	.1						8.9	9.2
SW	.3	2.3	3.5	4.1	.6							10.8	10.0
WSW	.9	.6	3.5	2.9	.3							8.2	9.6
W	.5	2.5	2.5	2.4	.4	.1						8.5	9.1
WNW	.7	1.4	1.6	1.5	.8	.1						5.7	10.3
NW	.4	1.7	.3	.3	.5							2.4	8.6
NNW	.8	.4	.5	.1	.3	.1						2.2	7.9
VARB.			.3	.3								.5	10.0
CALM												4.7	
	9.9	20.9	30.5	28.6	4.9	.5						100.0	8.6

TOTAL NUMBER OF OBSERVATIONS 790

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 175621 ALCONBURY RAF UK 74-83 YEARS MAP NORTH  
CLASS ALL WEATHER 2100-2300 HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	1.2	2.2	2.9	.3	.1						8.2	9.2
NNE	.7	1.4	2.5	2.5	.7							7.6	9.5
NE	.3	.9	2.6	.5								4.2	8.4
ENE		1.4	1.1	.5								3.2	7.7
E	1.2	1.6	.5	.5								3.7	5.9
ESE	.4	.1	.8	.3								1.6	7.6
SE	.1	1.1	1.4	.4								2.9	8.0
SSE	.3	1.2	2.2	.5								4.2	7.4
S	1.1	3.4	3.5	1.1	.5	.1						9.8	7.8
SSW	1.2	3.8	3.0	1.6	.1	.1						9.9	7.2
SW	1.2	1.6	2.6	2.0	.3	.5						9.1	9.7
WSW	.4	1.1	5.6	3.3	.1							10.5	9.7
W	1.2	2.6	2.5	2.7	.5							9.5	8.8
WNW	.1	1.2	1.2	.8	.3	.3	.1					4.1	10.4
NW	.4	1.2	.5	.4	.3							2.9	8.3
NNW	.3	1.6	1.6	.3	.3							4.1	7.8
VARBL													
CALM												4.8	
	9.5	25.9	13.8	21.3	3.4	1.2	.1					100.0	8.1

TOTAL NUMBER OF OBSERVATIONS 779

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

035621 ALCONBURY RAF UK 74-83 MAR  
STATION NAME YEARS MONTH  
ALL WEATHER CLASS ALL  
CONDITION HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	1.3	3.2	3.4	.5	.0						9.1	9.8
NNE	.4	1.0	2.1	2.2	.9	.1						6.7	10.9
NE	.3	.9	1.6	1.8	.1							4.7	9.7
ENE	.3	.7	1.0	.6	.1							2.7	8.1
E	.6	1.0	1.4	.7	.0							3.8	7.4
ESE	.3	.7	.8	.5	.0							2.3	7.6
SE	.2	.6	.9	1.0	.0	.0						2.7	9.1
SSE	.3	.9	1.6	1.1	.2	.0						4.1	8.9
S	.8	2.5	3.5	2.8	.5	.0						10.1	8.9
SSW	1.0	2.4	2.4	2.4	.6	.3						9.2	9.3
SW	.6	1.8	3.2	3.6	.6	.1	.0					10.0	10.0
WSW	.6	1.1	3.2	3.0	.6	.1	.0					8.6	10.3
W	.4	1.7	2.4	3.4	1.2	.3	.0					9.5	11.5
WNW	.2	.4	1.3	1.6	.7	.3	.0					5.0	11.9
NW	.2	1.7	1.1	.8	.4	.1						3.6	9.8
NNW	.3	.6	1.8	1.1	.2	.0						4.1	9.6
VARBL		.0	.6	.4	.1	.0						1.2	11.6
CALM												2.8	
	7.2	19.0	32.1	30.3	6.9	1.6	.1					100.0	9.6

TOTAL NUMBER OF OBSERVATIONS 6396

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

135621 ALCONBURY RAF UK

74-83

APR  
MONTH

ALL WEATHER  
CLASS

0000-0200  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	5.6	6.0	3.5								16.9	7.3
NNE	1.5	2.7	5.8	3.1		.2						13.3	8.5
NE	.8	1.5	2.5	.4								5.2	6.9
ENE	.2	.6										.8	5.0
E		.8	.8									1.7	6.3
ESE		.2	.2									.9	7.5
SE	.2	.8	.2									1.2	5.2
SSE	.2	.4	.6									1.2	5.7
S	1.7	1.2	1.0									3.3	5.0
SSW	1.2	3.3	1.9	.8								7.3	6.4
SW	1.0	3.7	2.3	1.9	.2							8.7	7.9
WSW	1.2	1.5	2.9	1.0	.2							6.9	7.5
W	1.2	2.3	2.7	1.7	.6							8.5	8.5
WNW	1.2	1.5	1.9									4.6	5.8
NW		2.7	1.2	1.0		.2						5.2	7.8
NNW	.4	2.1	1.5	1.0	.2							5.2	8.4
VARB													
CALM												9.4	
	12.1	30.6	31.7	14.6	1.2	.4						100.0	6.7

TOTAL NUMBER OF OBSERVATIONS 480

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIP WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

35621  
STATION

ALCONBURY RAF UK  
STATION NAME

74-83  
YEARS

APR  
MONTH

ALL WEATHER  
CLASS

0300-0500  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.0	6.7	6.6	4.7	.4							20.3	7.8
NNE	.4	1.2	4.3	2.0	.1							9.0	8.9
NE	.3	1.1	1.3	.5								3.2	7.5
ENE	.5	.7	.4	.1								1.3	5.5
E	.1	.7	.3	.1								1.2	6.6
ESE	.7	.7	.3									1.6	4.6
SE	.1	1.5	.3									1.9	5.4
SSE	1.2	.9	.1									2.3	3.6
S	1.1	1.7	1.6	.1								4.6	6.1
SSW	1.6	1.9	1.6	.8								5.9	6.4
SW	1.1	2.3	2.8	.5								6.7	6.7
WSW	1.3	2.3	1.2	1.1	.3							6.2	7.1
W	1.6	1.7	3.3	.9	.3							7.9	7.1
WNW	.8	1.6	2.7	1.2								6.3	7.4
NW	.8	1.7	2.0	.9	.1	.1						5.8	7.7
NNW	.5	2.3	2.8	1.2								6.8	7.5
VARBL													
CALM												10.0	
	14.2	28.5	31.6	14.3	1.2	.1						100.0	6.5

TOTAL NUMBER OF OBSERVATIONS 797



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

35621 ALCONBURY RAF UK 74-83 APR  
STATION STATION NAME YEARS MONTH  
ALL WEATHER CLASS 7600-0800 HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	5.7	8.7	4.7	.5							19.2	8.6
NNE	.7	1.2	4.2	4.7	.1	.2						15.8	9.7
NE	.1	1.5	1.2	1.6	.1							4.5	8.9
ENE	.1	.4	.6	.4								1.5	8.2
E	.5	.2	.2	.1								1.1	5.4
ESE	.2	.6	.6	.2								1.7	6.7
SE	.5	.7	.9	.1								2.2	6.2
SSE	1.0	.9	.6	.2								2.7	5.4
S	1.1	1.2	.9	.6								3.8	6.5
SSW	1.1	1.8	2.1	1.5								6.5	7.2
SW	.5	2.6	2.6	1.7								7.3	8.0
WSW	.6	1.6	2.4	.9								5.5	7.8
W	1.8	1.1	3.1	1.3	.6							7.9	8.1
WNW	.9	1.3	1.8	1.7	.2							6.0	8.4
NW	.4	1.7	1.5	2.8	.4							6.7	10.2
NNW	.4	.7	3.3	2.2	.1							6.7	9.4
VABRL				.2	.1							.4	15.3
CALM												6.2	
	15.8	21.9	34.6	24.1	2.2	.2						100.0	7.8

TOTAL NUMBER OF OBSERVATIONS 818

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

STATION 75621 STATION NAME ALCONBURY RAF UK YEARS 74-83 APD 0900-1100  
 CLASS ALL WEATHER  
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	1.5	5.2	6.8	.6	.2						15.1	10.9
NNE	.8	1.4	3.1	7.7	.5	.1						13.6	10.9
NE	.5	1.3	1.5	3.5	.5							7.1	10.4
ENE	.2	.5	1.4	.6								2.0	8.3
E	.1	.0	.7	.5	.1							2.3	8.0
ESE	.7	.8	.8	.3								2.6	6.1
SE	.3	.3	.5	1.5								2.6	9.7
SSE		.7	1.5	.6	.1							2.9	9.4
S	1.2	1.5	.6	1.0	.1							4.0	7.1
SSW	.5	.0	1.2	1.5								4.0	9.3
SW	1.2	.9	1.4	2.1	.6							6.1	9.6
WSW	.8	.5	1.6	1.5	.2	.2						4.8	9.6
W	.9	1.0	2.5	2.3	.7	.1						7.6	9.7
WNW	.3	.5	1.3	2.5	.8	.2						6.0	12.0
NW	.5	.0	1.0	2.2	.6	.2						5.4	11.3
NNW	.2	.0	.8	3.0	.6							5.5	11.6
VARBL		.6	1.7	1.5	.2	.1						4.1	10.8
CALM												3.1	
	8.6	15.4	26.7	39.1	5.5	1.5						100.0	9.9

TOTAL NUMBER OF OBSERVATIONS 869

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 75521 ALCONBURY RAF UK 74-83 APR  
STATION NAME YEARS MONTHS  
CLASS ALL WEATHER  
1200-1800  
HOURS (LST)  
CONDITION

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	1.7	5.0	4.4	.6	.3						12.5	10.5
NNE	.6	.7	2.9	8.5	1.1	.2						13.5	12.1
NE	.1	1.0	1.6	3.4	.3							6.9	10.8
ENE	.1	.7	.6	1.2								2.6	10.1
E	.7	.6	.8	1.0	.1							3.2	8.5
ESE	.1	.7	.5	.3								1.6	7.6
SE	.1	.6	1.1	2.1	.1							4.1	10.8
SSE	1.0	.3	.7	1.6								3.6	8.4
S	.8	.8	1.9	.7								4.2	7.4
SSW	.6		.8	.8								2.1	6.7
SW	.6	.4	1.5	2.4	.5							5.6	10.3
WSW	.3	.5	1.5	2.1	.6	.2	.1					5.3	11.9
W	.2	.8	3.2	2.3	.8	.2						8.0	10.5
WNW	1.0	.7	.9	2.8	.7	.1						6.2	10.9
NW	.2	.3	.8	2.6	.8	.1						4.8	12.7
NNW	.2	.0	1.5	3.5	.6							6.5	11.4
VARBL		.5	3.4	2.7	.5							7.0	10.6
CALM												2.3	
	7.8	11.7	28.0	41.9	6.5	1.2	.1					100.0	10.4

TOTAL NUMBER OF OBSERVATIONS 887

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

05621 ALCONBURY RAF UK 74-83 APP  
STATION STATION NAME YEARS MONTH  
ALL WEATHER CLASS 1500-1700  
CONDITION HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.4	.2	3.0	3.5	.8	.4						1.1	10.5
NNE	.2	.2	5.9	8.7	.6	.1						16.3	11.6
NE	.7	.0	2.7	4.9	.7							9.5	10.4
ENE	.5	.5	1.3	2.1	.1							4.5	10.4
E	.8	.7	.9	.7								3.2	7.1
ESE	.3	.2	.6	.4								2.3	7.2
SE	.4	.5	1.5	.8								3.3	8.0
SSE	.2	.5	.8	1.3	.1							2.9	10.2
S	.6	.5	2.7	.5								3.5	7.5
SSW	.7	.6	1.3	.4	.7							3.2	8.0
SW		.5	1.8	2.7	.4	.3						5.5	11.5
WSW	.5	.7	1.8	1.3	.8	.2						5.3	10.9
W	.4	.9	2.5	2.8	.2	.1						6.9	10.5
WNW	.7	.7	1.9	2.7	1.1							7.0	10.7
NW	.5	.8	1.1	3.2	.4							5.9	10.9
NNW	.2	1.1	.9	1.8	.1							4.1	9.4
VARBL			1.6	2.7	.1							4.5	11.9
CALM												2.5	
	9.7	11.5	31.5	42.3	5.2	.1						100.0	10.1

TOTAL NUMBER OF OBSERVATIONS 853

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 75621 ALCONBURY RAF UK YEARS 74-83  
CLASS ALL WEATHER  
CONDITION  
APR 1800-2000  
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.6	2.5	2.5	3.4	.4	.1						11.5	8.4
NNE	.7	2.3	6.6	7.4	.1							17.1	10.1
NE	.8	2.1	3.7	4.4								11.2	8.9
ENE	.4	1.4	1.9	.7								4.4	7.3
E	1.9	1.5	.4									4.0	3.5
ESE	.5	1.4		.5								2.5	6.1
SE	.3	.7	1.1	.4								2.5	7.5
SSE	.5	1.5	.7	.4								2.6	6.4
S	1.2	1.4	1.2									3.6	5.3
SSW	.5	.8	.7	1.7								3.0	8.0
SW	.5	1.3	2.1	.8	.1							5.3	7.7
WSW	.5	1.2	.7	1.4	.5	1						5.2	9.3
W	1.2	2.9	2.1	2.5								8.6	7.6
WNW	.5	1.4	1.9	2.2								6.0	8.8
NW	.4	.7	2.2	1.8	.4							5.5	10.0
NNW		.4	1.2	.8								2.5	8.6
VARBL			.1	.3								.4	10.7
CALM												4.1	
	12.6	24.4	29.0	27.9	1.6	.3						100.0	8.0

TOTAL NUMBER OF OBSERVATIONS 730

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 75521 STATION NAME ALCONBURY RAF UK YEAR 74-83 MONTH APR  
CLASS ALL WEATHER PERIOD 2100-2300  
CONDITION

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	5.0	5.0	3.3	.3							15.2	7.8
NNE	1.5	4.7	6.3	4.1	.2							16.1	8.2
NE	1.3	1.7	3.0	.8								6.8	6.9
ENE	.5	.7	.2									1.0	4.3
E	1.2	.5	1.3	.2								3.2	5.4
ESE	.5	1.2	.2	.2								2.2	5.0
SE	.3	1.2	.7									2.1	6.0
SSE	.8	.5	.7	.5								2.5	6.6
S	.8	2.0	1.2	.5								4.5	6.3
SSW	1.2	2.1	1.7	.2								5.1	5.4
SW	1.7	1.7	2.0	2.3								6.6	8.3
WSW	1.7	2.0	1.0	1.0	.2							6.6	6.6
W	.6	4.6	2.1	2.1								9.7	7.4
WNW	.3	.4	1.2	1.3								3.6	8.5
NW	.5	1.1	1.3	.5	.3							3.6	8.0
NNW	1.2	1.5	.5		.2	.7						3.5	5.9
VARBL			.2									.2	10.0
CALM												7.9	
	15.2	39.4	28.2	17.0	1.2	.2						100.0	6.7

TOTAL NUMBER OF OBSERVATIONS 606

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIP WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 75521 STATION NAME ALCONBURY RAF UK YEARS 74-83 APP DDP  
MONTH ALL  
CLASS ALL WEATHER  
CONDITION ALL  
HOURS (L.S.T.) ALL

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	3.4	5.2	4.3	.5	.2						14.9	9.0
NNE	.7	1.6	4.7	5.9	.4	.1						13.5	10.3
NE	.5	1.4	2.1	2.6	.2							6.9	9.3
ENE	.3	.6	.9	.7	.0							2.5	8.5
E	.7	.8	.7	.4	.0							2.5	6.8
ESE	.4	.8	.4	.3								1.9	6.3
SE	.3	.9	.8	.7	.0							2.6	8.1
SSE	.6	.7	.7	.6	.0							2.7	7.4
S	.9	1.3	1.3	.5	.0							4.0	6.6
SSW	.9	1.3	1.4	.9	.0							4.4	7.3
SW	.7	1.6	2.0	1.8	.2	.0						6.4	8.8
WSW	.8	1.4	1.6	1.3	.4	.1	.0					5.6	8.9
W	1.1	1.8	2.7	2.0	.4	.1						8.1	8.7
WNW	.7	1.1	1.7	2.0	.4	.1						5.9	9.5
NW	.4	1.1	1.4	2.0	.4	.1						5.3	10.1
NNW	.4	1.2	1.6	1.8	.2	.0						5.2	9.4
VARBL		.2	1.0	1.1	.1	.0						2.4	11.1
CALM												5.3	
	12.8	20.7	30.2	29.0	3.4	.7	.0					100.0	8.5

TOTAL NUMBER OF OBSERVATIONS 5990

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 35621 STATION NAME ALCONBURY RAF UK YEARS 74-83 MONTH MAY  
 CLASS ALL WEATHER 0000-2200  
 HOURS (L.S.T.)  
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	5.3	6.6	4.4	.2							18.7	8.0
NNE	.6	3.7	4.8	3.2								11.8	8.5
NE	1.7	.6	.8	.2								2.6	5.3
ENE	.4	1.0	.7									1.6	4.3
E		2.7	1.6									3.6	6.7
ESE	.2	.4	.2									.8	6.0
SE		.4	.2	.4								1.0	8.4
SSE	.6	.4	.4	.6								2.0	6.7
S	2.4	2.8	2.8									8.0	5.2
SSW	2.2	3.5	2.4	.4								8.8	5.4
SW	1.7	3.7	3.0	.6								7.6	6.9
WSW	1.4	2.2	2.8	.2								6.6	5.9
W	1.2	2.9	3.6	.6								8.2	6.4
WNW	.4	1.4	1.4	.6								3.8	7.3
NW	.4	.6	.6	.6								2.2	7.5
NNW	.6	.8	.2	.6								2.2	6.2
VARBL													
CALM												11.2	
	13.4	31.2	31.6	12.4	.2							100.0	6.1

TOTAL NUMBER OF OBSERVATIONS 500



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 175621 ALCONBURY RAF UK 74-83 MAY  
STATION NAME YEARS MONTH  
ALL WEATHER  
CLASS  
CONDITION  
0300-0500  
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.1	6.3	7.1	3.4	.1							19.2	7.6
NNE	1.8	3.3	2.2	3.3								10.7	7.8
NE	1.3	1.1	.1									2.5	3.8
ENE	.5	.3	.4									1.2	4.6
E	.7	1.2	1.3									3.2	5.6
ESE	.1	1.2	.5									1.8	6.0
SE	1.2	.4	.5									2.5	4.6
SSE	.4	.7	1.7	.1								2.9	7.0
S	2.4	3.3	2.7	.3								7.9	5.1
SSW	7.1	3.7	1.7	.7								7.1	5.3
SW	2.6	3.2	3.2	.9								9.9	6.1
WSW	1.3	3.2	2.0									6.5	5.4
W	.7	2.4	3.2	.3								6.5	6.8
WNW	.4	.9	.9	.3								2.4	7.1
NW		1.7	1.2	.4								2.9	7.5
NNW	1.7	1.3	2.1									4.8	5.6
VARB.													
CALM												6.1	
	12.0	33.3	30.3	9.2	.1							100.0	5.9

TOTAL NUMBER OF OBSERVATIONS 757

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

35621 ALCONBURY RAF UK 74-83 MAY  
STATION NAME STATION NAME YEAR MONTH  
ALL WEATHER CLASS 6600-0000  
CONDITION HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	2.2	6.6	5.3	.2							15.7	9.0
NNE	.7	2.4	3.0	5.0	.4							11.5	9.4
NE	1.1	2.2	1.1	1.2	.2							5.8	7.3
ENE	.4	1.7	.7	.1								2.2	6.1
E	.7	1.2	2.2	.1								4.3	6.5
ESE	.7	.6	1.2	.6								3.2	7.2
SE	.2	.4	1.5									2.1	7.2
SSE	.1	.7	1.5	.1								2.4	6.9
S	1.3	1.9	2.6	1.6								7.4	7.2
SSW	1.3	2.7	2.7	.9	.1							7.7	6.8
SW	1.5	2.3	3.0	1.5	.1							8.4	7.2
WSW	.5	1.8	2.2	1.7								6.2	8.1
W	.1	1.3	2.8	1.9								6.2	9.1
WNW		1.7	1.5	1.0								3.4	8.8
NW	.4	1.1	1.8	.5	.4							4.1	8.6
NNW	.2	.7	2.3	.9								4.1	8.2
VARBL				.1								.1	11.0
CALM												5.2	
	12.7	23.6	36.6	22.5	1.5							100.0	7.6

TOTAL NUMBER OF OBSERVATIONS 823

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/PAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 5621 ALCONBURY RAF UK 74-83 YEAR MAY  
STATION NAME CLASS 3900-1100  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	1.7	5.3	4.5	.3							12.4	9.5
NNE	.5	.5	2.7	5.9	.7	.3						10.6	11.7
NE	.5	1.4	1.6	2.2	.5							6.1	10.1
ENE	.8	1.7	1.0	.8	.3							4.0	7.7
E	.3	.7	2.3	.7								4.0	8.0
ESE	.5	.5	.5	1.6	.3							3.3	10.4
SE	.2	.5	.8	.8	.1							2.4	9.1
SSE	.3	1.1	1.0	1.0								3.5	8.2
S	1.5	1.8	1.1	1.9								6.8	7.8
SSW	.8	1.7	2.6	2.9	.5							8.5	9.5
SW	1.0	.2	2.7	3.0	.2							7.2	10.0
WSW	.2	.7	2.1	2.2								5.1	9.7
W	.3	1.1	2.1	2.4	.1							6.1	9.5
WNW	.2	.5	1.6	1.6	.1							4.0	10.0
NW	.1	.3	1.3	1.0								2.7	9.3
NNW	.1	.3	2.5	1.7								4.0	8.9
VARBL		.1	2.9	2.6	.3							5.9	10.9
CALM												3.7	
	8.0	14.2	34.1	36.2	3.5	.3						100.0	9.3

TOTAL NUMBER OF OBSERVATIONS 878

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

75621  
STATION

ALCONBURY RAF UK  
STATION NAME

74-83  
YEARS

MAY  
MONTH

ALL WEATHER  
CLASS

1200-1800  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.3	1.7	3.4	2.7	.3							8.4	9.3
NNE	.8	1.4	2.1	6.2	.9	.7						11.8	11.7
NE	.4	1.0	2.3	2.2	.6	.1						6.7	10.5
ENE	.2	.8	.7	.3	.2							2.2	8.0
E	.6	.9	1.2	1.7								4.3	8.9
ESE	.4	1.7	.8	2.4	.4	.1						5.9	10.4
SE	.2	.6	.1	1.6								2.4	9.9
SSE	.1	1.7	1.1	1.1	.1							3.4	9.2
S	1.0	1.9	1.8	1.7	.1							6.3	8.3
SSW	.9	1.3	1.9	2.7	.7	.1						7.5	10.1
SW	.6	.3	2.3	3.0	.2	.2						6.7	10.6
WSW	.2	.9	1.8	2.1		.1						5.1	9.8
W	.2	.7	3.4	2.6	.3							7.2	10.3
WNW	.1	.3	.7	1.2	.1	.1						2.6	11.2
NW	.1	.9	.9	1.3	.1	.1						3.4	10.0
NNW	.1	1.7	1.9	1.3								4.3	8.7
VARBL	.1	.4	5.4	2.9	.3							9.2	10.2
CALM												2.4	
	6.4	16.6	11.9	17.0	4.4	1.2						100.0	9.8

TOTAL NUMBER OF OBSERVATIONS

901

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIP WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

35621 ALCONBURY RAF UK 74-83 MAY  
STATION STATION NAME YEARS MONTH  
ALL WEATHER 1500-1700  
CLAS HOUR (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	1.6	2.9	2.8	.3							8.2	9.3
NNE	.7	1.7	2.8	4.4	1.4	.1						11.1	11.3
NE	.6	1.3	2.2	3.4	.7							8.1	10.6
ENE	.1	.5	1.3	1.0	.6							3.5	11.4
E	.5	1.2	1.2	2.0								4.8	8.6
ESE		.5	1.7	2.3	.1							4.6	10.6
SE	.3	.5	1.3	.9	.1							3.1	9.0
SSE	.3	.6	1.7	1.2								3.8	9.0
S	.9	1.7	2.8	1.9	.1							7.4	8.4
SSW	.7	1.6	2.7	2.3	.3	.1						7.8	9.1
SW	.6	1.0	2.2	2.8	.1							6.7	9.9
WSW	.2	.9	2.3	2.0	.2	.1						5.8	9.9
W	.7	.9	2.2	2.7	.7							7.2	10.2
WNW	.2	.6	.9	1.4	.3							3.5	10.3
NW	.3	.8	1.4	.9	.2	.1						3.8	9.4
NNW	.3	1.4	1.4	.5								3.6	8.9
VARBL		.1	3.2	1.6								5.0	10.1
CALM												2.0	
	7.2	16.9	34.2	34.0	5.3	.5						100.0	9.6

TOTAL NUMBER OF OBSERVATIONS 863

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

35621  
STATION

ALCONBURY RAF UK  
STATION NAME

74-83  
YEARS

MAY  
MONTH

ALL WEATHER  
CLASS

1800-2000  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	1.9	2.3	2.0	.4							6.9	8.8
NNE	.3	2.4	3.5	7.6	.5							14.4	10.9
NE	.4	2.6	2.9	1.5	.3							7.6	8.2
ENE	.1	1.9	1.8	.5								4.4	7.3
E	.7	2.9	3.3	1.0								7.6	6.9
ESE	.8	.7	2.3	1.4								5.2	8.0
SE	.4	.4	1.4	1.5								3.7	9.1
SSE	.3	.7	1.0	.3								2.2	7.1
S	1.7	2.3	2.6	.4								6.3	6.6
SSW	1.2	1.8	1.9	1.8	.1							6.8	8.1
SW	1.5	1.1	3.5	1.8								7.9	7.6
WSW	.7	1.6	2.2	.7	.1							5.3	7.4
W	1.7	1.2	2.9	.7								5.7	7.0
WNW	.5	.7	.5	.3	.1							2.2	7.2
NW	1.7	1.4	.8	1.2								4.4	7.3
NNW	.3	.7	1.0	.5								2.4	7.8
VARBL			.1	.3								.4	11.0
CALM												6.7	
	10.5	23.9	33.9	23.4	1.6							100.0	7.6

TOTAL NUMBER OF OBSERVATIONS 735

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 35621 ALCONBURY RAF UK STATION NAME 74-83 YEARS MAY MONTH  
ALL WEATHER CLASS 2100-2300 HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.6	3.1	2.3	2.1	.2							9.3	7.5
NNE	.8	2.9	5.8	5.8								15.4	9.1
NE	1.1	1.9	.8	.6								4.4	6.7
ENE	.6	2.4	1.6									4.7	6.0
E	1.5	1.6	2.1									5.2	5.3
ESE	.3	1.1	1.6	.2								3.2	6.8
SE	.5	1.0	1.3	.3								4.1	6.1
SSE	.8	1.7	1.3	.6								3.7	6.9
S	2.3	2.4	2.3									7.0	5.4
SSW	1.0	3.1	2.4	1.1								7.6	6.7
SW	.6	2.1	1.9	1.0								5.7	7.2
WSW	1.0	1.5	1.6	.5								4.5	6.4
W	.8	2.3	2.1	.2								5.4	5.8
WNW	.5	.6	.8	.5								2.4	7.2
NW	.6	1.3	.6	.3								2.6	5.8
NNW	.5	.3	.5	.5								1.8	7.5
VARB			.2									.2	8.0
CALM												12.8	
	14.6	29.2	29.4	13.8	.2							100.0	6.8

TOTAL NUMBER OF OBSERVATIONS 618

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIP WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

35621  
STATION

ALCONBURY RAF UK  
STATION NAME

74-83  
YEARS

MAY  
MONTH

ALL WEATHER  
CLASS

ALL  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	2.8	4.5	3.4	.3							12.0	8.6
NNE	.8	2.1	3.2	5.3	.5	.1						12.0	10.2
NE	.8	1.5	1.5	1.5	.3	.1						5.7	8.7
ENE	.4	1.1	1.0	.4	.2							3.0	7.5
E	.6	1.4	1.9	.8								4.6	7.2
ESE	.4	.8	1.1	1.2	.1	.1						3.7	9.0
SE	.4	.6	.9	.7	.0							2.7	8.0
SSE	.3	.8	1.3	.7	.0							3.1	7.9
S	1.5	2.2	2.2	1.1	.0							7.0	6.8
SSW	1.2	2.3	2.3	1.6	.2	.1						7.7	7.9
SW	1.2	1.5	2.7	1.9	.1	.1						7.5	8.2
WSW	.6	1.5	2.1	1.3	.0	.1						5.6	8.0
W	.6	1.5	2.8	1.5	.2							6.5	8.5
WNW	.3	.7	1.0	.9	.1	.1						3.2	9.0
NW	.3	.9	1.1	.8	.1	.1						3.3	8.4
NNW	.8	.8	1.6	.7								3.5	7.6
VARBL	.0	.1	1.7	1.1	.1							3.0	10.4
CALM												5.9	
	10.8	22.7	32.9	25.0	2.4	.3						110.0	7.9

TOTAL NUMBER OF OBSERVATIONS

6069



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 15621 STATION NAME ALCONBURY RAF UK YEARS 73-82 ILL 100  
CLASS ALL WEATHER MONTHS 0000-0200  
CONDITION

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	3.7	6.6	3.7	2.1	.2							16.3	6.1
NNE	.7	3.9	2.0	.5								7.1	6.2
NE	.7	1.6	1.6									3.9	5.7
ENE	.4	.2	.7	.2								1.4	6.8
E	.7	.5	.7									2.0	5.1
ESE	1.2	.5										1.8	2.8
SE	.7	.9	.5									2.1	4.7
SSE	.7	1.4	.2									3.6	3.8
S	1.6	1.2	.4									3.2	3.7
SSW	2.7	5.9	.9	.4								9.8	4.7
SW	2.3	3.6	2.5	.5								8.9	5.5
WSW	2.7	5.7	2.5									9.4	5.0
W	1.2	5.7	2.1	.7								9.1	5.8
WNW	.5	2.7	1.6									4.1	6.1
NW	.9	.5	2.7	.4								3.7	6.8
NNW	.4	.7	.7	.2								2.0	6.6
VARBL				.2								.2	14.0
CALM												11.5	
	21.7	39.4	22.0	5.2	.2							100.0	4.9

TOTAL NUMBER OF OBSERVATIONS 563

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

7521 ALCONBURY RAF UK 75-82 JUN  
STATION NAME YEARS MONTHS  
ALL WEATHER  
CLASS  
CONDITION

0000-0500  
HOURS (L.S.T.)

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.2	7.1	4.3	2.2	.1							16.6	6.4
NNE	1.1	1.5	1.4	.5								4.6	6.3
NE	.1	1.3	1.3	.3								2.9	6.8
ENE	.4	.3	.3									1.4	4.8
E	.5	.5	.6	.3								1.9	6.3
ESE	.9	.6	.3									1.7	4.5
SE	.9	.1	.5									1.5	4.6
SSE	.5	1.1	.1									.3	4.5
S	2.5	1.8	1.1	.1								.6	4.5
SSW	4.7	4.8	1.1	.5								11.2	4.3
SW	3.1	4.8	2.7	.1								13.1	4.9
WSW	2.3	5.1	2.9	.3								10.4	5.5
W	1.8	4.6	3.1	.4								9.8	5.7
WNW	.6	2.8	.8	.1	.1							4.5	5.9
NW	.1	1.1	.5	.1								1.6	6.1
NNW	.9	1.5	.8									3.1	5.0
VARBL				.1								.1	11.0
CALM												11.1	
	23.2	39.4	21.1	5.0	.3							100.0	6.8

TOTAL NUMBER OF OBSERVATIONS 785

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 15621 ALCONBURY RAF UK STATION NAME 77-82 YEARS JUN 1981  
ALL WEATHER CLASS 2600-0600 HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	3.4	8.1	2.2	.1							14.5	7.9
NNE	.7	2.2	3.3	1.6								7.7	7.8
NE	.7	1.2	2.1	.5								4.5	6.9
ENE	.6	.8	.6									1.7	4.9
E	1.2	.7	1.3	.1								3.1	6.1
ESE	.4	.8	.5									1.7	5.3
SE	.4	.7	.2									1.3	4.9
SSE	.1	1.6	.6									2.3	5.6
S	1.9	2.3	2.5	.2								7.0	5.7
SSW	1.8	4.0	1.4	.5								7.7	5.5
SW	.6	2.7	4.1	1.2								8.6	7.4
WSW	.8	3.6	2.8	1.8								9.1	7.3
W	1.6	3.6	5.0	2.2	.1							12.4	7.7
WNW	.4	1.1	2.8	1.2	.4							5.8	9.2
NW	.2	.6	1.1	1.1		.1						3.1	9.5
NNW	.7	1.6	1.3	.7	.2							4.6	7.5
VARBL			.7	.4								1.1	9.7
CALM												3.7	
	12.7	30.6	18.4	13.6	.8	.1						100.0	7.0

TOTAL NUMBER OF OBSERVATIONS 828

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

75621 ALCONBURY RAF UK 77-82 JUN  
STATION STATION NAME YEARS MONTH  
ALL WEATHER  
CLASS  
CONDITION  
0900-1100  
HOURS (L.S.T.)

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	1.5	5.0	2.8								9.7	9.3
NNE	.6	1.4	3.1	1.6	.2							7.2	8.5
NE	.5	1.3	2.1	1.2								5.3	8.3
ENE	.8	.6	1.5	.1								3.0	6.2
E	.6	1.5	.9	.6								3.6	6.4
ESE	.5	.6	.6									1.6	5.1
SE	.5	.8	.5									1.7	5.2
SSE	.2	1.5	.6									2.3	5.3
S	.9	2.1	1.3	.7								5.2	6.2
SSW	.7	2.0	1.8	1.7								6.2	8.0
SW	.2	2.0	4.4	1.4								8.9	8.0
WSW	.2	1.6	3.7	2.1		.1						7.7	9.0
W	2.0	1.4	3.5	3.6	.5							10.8	8.9
WNW	.6	1.3	2.5	2.5	.5							7.4	9.6
NW	.8	1.4	2.7	1.0	.2	.1						5.1	9.1
NNW	.2	1.0	2.1	1.3								4.6	8.6
VARBL		.2	5.7	1.6	.1							7.7	9.1
CALM												2.5	
	9.2	23.3	41.1	22.1	1.5	.2						100.0	8.1

TOTAL NUMBER OF OBSERVATIONS 867

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

15621 ALCONBURY RAF UK 77-82 JUN 1200-1400  
STATION STATION NAME YEARS MONTHS  
ALL WEATHER  
CLASS  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.6	3.3	2.3								3.1	8.8
NNE	.6	1.2	3.6	2.4								7.8	9.1
NE	.2	.7	2.3	1.2								4.4	8.9
ENE	.1	.9	1.1	.6								2.7	7.9
E	.9	1.7	.8									3.4	5.2
ESE		.6	.3	.1								1.0	6.7
SE	.7	1.2	.6	.1								2.6	5.3
SSE	.7	1.1	.7	.2								2.7	5.9
S	.7	.5	2.3	1.1	.1							4.6	8.2
SSW	.6	1.5	2.8	2.6	.1							7.6	9.1
SW	.2	1.9	3.3	1.9	.1							7.5	9.0
WSW	.5	1.6	4.1	2.5	.2							8.8	9.2
W	.5	1.7	4.0	3.4	.5	.1						10.1	10.1
WNW	.6	1.8	2.6	2.5	.5							7.9	9.2
NW	.5	.2	1.6	1.5	.7							4.4	10.8
NNW	.3	.9	1.8	.9								4.0	7.9
VARBL		.1	7.7	2.5	.1							10.8	9.4
CALM												2.0	
	7.9	19.2	42.7	25.8	2.3	.1						100.0	8.6

TOTAL NUMBER OF OBSERVATIONS 885

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIP WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

035621 ALCONBURY RAF UK 77-82 JUN  
STATION NAME STATION NAME YEARS MONTH  
ALL WEATHER CLASS 1500-1700  
HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	1.4	2.6	2.2								7.4	8.1
NNE	1.4	1.5	3.5	3.2	.3							12.0	9.3
NE	.9	1.2	3.5	1.5	.1							7.2	8.3
ENE	.3	1.7	1.2	.5								3.3	7.3
E	.6	.3	1.5	.5								2.9	7.2
ESE		.7	.5	.6								1.7	8.7
SE	.2	.9	1.3	.1								2.6	7.7
SSE		.9	.7	.7	.1							2.4	8.9
S	.3	1.2	.6	.5	.1							2.7	7.1
SSW	.6	1.2	1.9	1.2	.1							4.9	8.6
SW	.6	1.7	4.2	2.6	.1							9.2	8.7
WSW	.7	1.7	3.5	1.6	.1							7.7	8.4
W	.5	2.6	3.5	4.9	.5	.1						11.9	10.0
WNW	.1	1.6	1.9	2.9	.3							6.8	10.0
NW	.5	.7	1.7	1.5	.3							4.8	9.6
NNW	.8	.9	.8	.7	.3							3.6	8.0
VARBL		.1	6.1	2.1								8.4	9.4
CALM												2.9	
	8.8	19.7	38.7	27.1	2.6	.1						100.0	8.5

TOTAL NUMBER OF OBSERVATIONS 862

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

75621 ALCONBURY RAF UK 71-82 JUN  
STATION STATION NAME YEARS MONTH  
ALL WEATHER  
CLAS  
1800-2000  
HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	1.6	.9	2.3								6.5	7.7
NNE	.3	2.6	5.1	4.0								11.9	8.9
NE	.8	2.3	4.3	1.3	.1							8.8	7.8
ENE	.9	1.7	1.4	.3								3.5	6.3
E	.4	2.3	.8	.3								3.8	5.7
ESE	.3	.9	.6	.1								1.9	6.6
SE	.5	.7	1.6	.3								1.2	6.5
SSE	.3	.5	.9									1.7	6.7
S	.9	1.2	.4	.5								3.0	5.9
SSW	1.3	2.3	1.2	.9								5.7	6.3
SW	1.0	2.3	2.6	.8								6.7	6.8
WSW	1.7	3.6	3.5	.6								9.5	6.8
W	1.7	4.5	4.0	2.2	.1							12.6	7.2
WNW	.5	1.9	2.1	1.3	.4							6.1	8.8
NW	.5	1.8	1.8	1.7								5.2	7.6
NNW	.4	1.7	.1	.4								2.1	6.2
VARBL			.9	.6								1.6	9.6
CALM												6.2	
	13.3	31.0	32.2	17.0	.6							100.0	6.9

TOTAL NUMBER OF OBSERVATIONS 771

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

035621  
STATION

ALCONBURY RAF UK  
STATION NAME

73-82  
YEARS

JUN  
MONTH

ALL WEATHER  
CLASS

2100-2300  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.0	3.5	2.1	1.7								9.2	6.8
NNE	1.7	3.6	5.0	1.4								11.6	6.9
NE	.2	2.3	2.4	.3								5.1	6.7
ENE	.3	2.1	.5									2.9	5.3
E	1.2	1.6	1.1	.3								4.4	5.2
ESE	.2	1.4	.3									1.8	5.5
SE	.5	1.4	.5									2.3	5.1
SSE	.6	1.5	.9									3.0	5.2
S	1.4	2.3	.8	.2								4.5	4.9
SSW	2.7	3.7	1.4	.5								7.5	5.2
SW	2.3	2.4	2.7	.3								7.7	5.6
WSW	1.1	3.8	1.5	.6								6.9	6.0
W	.9	5.6	2.7	.2								9.3	5.9
WNW	.8	2.7	.8	.5								4.7	5.6
NW	.5	1.1	1.5	.9	.2							4.1	8.1
NNW	.6	1.1	.9	.3								2.9	5.9
VARBL			.5									.5	9.0
CAL												12.0	
	16.5	39.2	25.2	6.9	.2							170.0	5.3

TOTAL NUMBER OF OBSERVATIONS 666



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 035621 ALCONBURY RAF UK YEAR 77-82 MONTH ALL  
STATION NAME CLASS ALL WEATHER MONTHS ALL  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 54	%	MEAN WIND SPEED
N	1.6	3.1	3.8	2.2	.0							13.8	7.5
NNE	.9	2.2	3.4	2.0	.1							8.8	8.1
NE	.5	1.4	2.5	.8	.0							5.3	7.7
ENE	.5	.0	.9	.2								2.5	6.3
E	.7	1.2	1.0	.3								3.1	5.9
ESE	.4	.8	.4	.1								1.6	5.8
SE	.5	.9	.7	.1								2.2	5.6
SSE	.5	1.2	.6	.1	.0							2.8	5.7
S	1.3	1.5	1.2	.4	.0							4.5	5.9
SSW	1.8	2.9	1.6	1.1	.0							7.5	6.3
SW	1.2	2.7	3.3	1.2	.0							8.4	7.1
WSW	1.1	3.1	3.1	1.3	.0	.7						8.7	7.2
W	1.3	3.5	3.5	2.3	.2	.7						10.9	7.9
WNW	.5	1.8	1.9	1.5	.3							6.1	8.5
NW	.4	.9	1.5	1.0	.2	.7						4.0	8.8
NNW	.5	1.1	1.1	.6	.1							3.8	7.3
VARBL		.1	3.0	1.0	.0							4.1	9.8
CALM												6.0	
	13.6	29.3	33.6	16.3	1.1	.1						100.0	6.8

TOTAL NUMBER OF OBSERVATIONS 6222

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

35621 ALCONBURY RAF UK 73-82 JUL  
STATION MONTH  
CLASS ALL WEATHER  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.8	5.2	3.1	.5								11.7	5.5
NNE	.7	1.7	3.7	.7								6.8	7.3
NE	.2	.7	.2	.2								1.2	5.7
ENE	.3											.3	2.0
E	.2	.5	.3									1.0	5.2
ESE	.3	.2										.5	3.7
SE	.3	.2										.5	3.0
SSE	.9	.7	.3									1.9	4.4
S	2.1	2.4	1.2									5.7	4.4
SSW	1.9	3.8	1.2									7.0	4.7
SW	2.1	3.8	5.0	.3								11.3	6.1
WSW	2.6	5.0	3.3	.3								11.3	5.4
W	2.1	3.8	4.3	.2								10.4	5.9
WNW	.9	2.6	1.6	.3								5.4	6.0
NW	1.2	3.1	1.6									5.9	5.3
NNW	.9	1.4	.3	.2	.2							3.0	6.1
VARB			.2	1.0								1.2	13.1
CALM												14.8	
	19.5	35.3	26.4	3.8	.2							100.0	4.9

TOTAL NUMBER OF OBSERVATIONS 575

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

75621  
STATION

ALCONBURY RAF UK  
STATION NAME

73-82  
YEARS

1111  
MONTHS

ALL WEATHER  
CLASS

0300-0500  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	3.4	6.7	3.8	1.4								14.6	5.9
NNE	1.0	2.4	2.9	.3								6.5	6.5
NE	.3	.3	.1	.5								1.1	8.6
ENE	.3	.3										.5	3.3
E	.6	.3	.1									1.0	1.0
ESE	.4	.1	.1									.5	4.0
SE	.1	.1	.3									.5	5.8
SSE	.4											.4	2.0
S	1.4	3.3	1.1	.1								5.9	5.0
SSW	3.9	3.6	1.5	.3								9.1	4.5
SW	2.7	5.3	2.6	1.1								11.0	6.0
WSW	2.5	4.4	1.5	.1								8.5	4.8
W	2.4	4.5	3.4	.4								10.7	5.6
WNW	.9	3.3	1.6	.5								6.3	6.1
NW	.9	2.6	1.9	.9								6.3	6.5
NNW	.9	1.4	.4	.4	.3							3.1	6.7
VARBL			.1	.4								.5	12.5
CALM												13.3	
	21.1	37.6	21.5	6.3	.3							120.0	4.8

TOTAL NUMBER OF OBSERVATIONS

797

USAFETAC

FORM  
AA 64

0-8-5 (OR A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

35621 ALCONBURY RAF UK 73-82 JUL  
STATION STATION NAME YEARS MONTH  
ALL WEATHER CLASS 2600-0800  
HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	3.9	6.0	1.5								12.4	7.5
NNE	.6	2.5	4.0	1.5								8.6	7.9
NE	.8	.9	.9	.2								2.9	6.2
ENE	.4	.7	.2	.1								1.4	5.6
E	.5	.2	.5	.1								1.3	5.7
ESE	.2	.1										.4	3.3
SE	.4	.5	.1	.2								1.2	5.7
SSE	.5	.4	.1	.1								1.1	5.0
S	1.2	2.7	.9	.1								4.9	5.3
SSW	1.5	3.4	2.5	.7								8.1	6.0
SW	1.2	3.9	3.9	1.6								10.6	7.0
WSW	1.6	3.9	4.8	.8								11.2	6.5
W	1.4	3.1	5.6	1.5	.1							11.7	7.4
WNW	.4	1.4	2.7	1.6	.1							6.2	8.7
NW	.7	1.5	1.8	1.5								5.5	7.7
NNW	.5	1.5	2.0	.7	.2							4.9	8.2
VARBL			.7	.7	.1							1.5	11.2
CALM												6.1	
	12.9	30.4	36.7	13.3	.6							170.0	6.7

TOTAL NUMBER OF OBSERVATIONS 852

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION  
275621

STATION NAME  
ALCONBURY RAF UK

YEARS  
77-82

DATE  
JUL  
1982

CLASS  
ALL WEATHER

NUMBER (L.S.T.)  
0900-1100

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	2.4	3.1	2.5	.1							8.6	8.6
NNE	.9	1.2	3.2	2.6	.2							8.2	8.9
NE	.5	.8	1.6	.8								3.7	7.7
ENE	.4	1.0	.4	.3								2.2	6.5
E	1.7	.8	.1	.3								2.2	5.4
ESE	.4	.2	.1	.2								1.2	5.8
SE	.7	.6	.1	.1								1.5	4.8
SSE	.6	.4	.2	.1								1.3	5.3
S	1.1	1.2	.9	.3								3.6	5.8
SSW	.8	2.6	1.9	1.3	.1							6.7	7.3
SW	.8	1.9	2.8	2.4								7.8	8.4
WSW	.4	1.8	4.1	2.2	.1							8.7	8.7
W	.8	2.4	7.2	4.0	.3	.1						14.8	9.0
WNW	.7	2.0	2.2	3.4	.1							8.4	9.1
NW	.2	.9	1.5	.8	.3							3.7	9.0
NNW	1.0	1.7	2.0	1.6	.3							6.3	8.3
VARB			4.6	3.0								7.6	10.1
CALM												3.6	
	11.0	21.5	36.2	26.0	1.7	.1						100.0	8.1

TOTAL NUMBER OF OBSERVATIONS

893

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 35621 ALCONBURY RAF UK 77-82 YEARS JUL  
MONTH  
CLASS ALL WEATHER  
HOURS (L.S.T.) 1200-1400  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	1.5	2.6	2.2	.1							7.2	8.6
NNE	.4	2.0	1.9	3.1								7.3	8.8
NE	.7	1.1	1.0	.7								3.4	7.2
NNE	.3	1.6	.7	.4								7.1	6.8
E	.8	.9	.2	.7	.1							2.6	7.1
ESE	.2	.5	.7	.2								1.7	7.4
SE	.7	.2	.2	.1								1.2	4.9
SSE	.4	.4	.2									1.1	4.6
S	1.0	1.4	1.3	.2								3.9	5.7
SSW	.1	1.6	2.5	1.1								5.3	8.3
SW	1.3	1.3	2.6	2.4								7.6	8.5
WSW	1.2	1.7	2.7	2.9								7.9	8.8
W	1.0	1.7	6.2	4.9								13.8	9.2
WNW	.9	1.4	3.5	3.7	.1	.1						9.7	9.6
NW	.5	1.7	1.7	2.2	.2							4.9	9.9
NNW	.2	1.7	2.7	1.2	.2							4.9	8.5
VARBL		.1	7.1	4.5	.3							12.0	10.4
CALM												2.3	
	17.5	19.2	36.4	30.3	1.1	.2						100.0	8.5

TOTAL NUMBER OF OBSERVATIONS 916

AD A146 913 ALCONBURY RAF UNITED KINGDOM REVISED UNIFORM SUMMARY OF  
SURFACE WEATHER (1..(U) AIR FORCE ENVIRONMENTAL  
TECHNICAL APPLICATIONS CENTER SCOTT A. APR 84  
UNCLASSIFIED USAFETAC/DS 84/014 SRI AD-F850 743 1/G 4/2

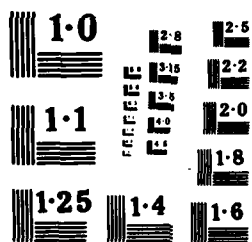
ALCONBURY RAF UNITED KINGDOM REVISED UNIFORM SUMMARY OF  
SURFACE WEATHER (L..U) AIR FORCE ENVIRONMENTAL  
TECHNICAL APPLICATIONS CENTER SCOTT A.. APR 84  
USAF/AFAC/OS R4/D14 SRI AD-F850 743 I/G 4/2

2/5

APR 84

F/G 4/2

NO





GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 45521 STATION NAME ALCONBURY RAF UK YEARS 77-82 ALL DATA  
CLASS ALL WEATHER 1500-1700  
CONDITION NOON (L.S.T.)

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	1.6	2.7	1.6	.2							6.7	8.5
NNE	.3	.5	2.6	3.4	.2							7.3	10.0
NE	.8	1.1	1.8	1.5								5.2	7.8
ENE	.6	.8	.9	.7								2.9	7.7
E	.3	.7	1.2	.5	.1							3.3	8.4
ESE	.6	.3	.2	.4								1.5	7.0
SE	.1	.4	.4	.1								1.1	6.4
SSE	.4	.6	.2	.1								1.3	5.3
S	.8	1.7	1.6	.2								4.3	5.9
SSW	.8	1.7	2.1	1.7								5.6	7.6
SW	.4	1.8	2.5	2.9								7.6	9.0
WSW	1.2	1.7	2.8	7.2								8.2	8.1
W	.6	2.6	6.1	4.1								13.2	9.1
WNW	.7	1.7	4.1	2.7	.7	.2						9.4	10.0
NW	1.0	1.5	1.9	2.4	.2							7.1	8.5
NNW	.3	1.2	1.5	1.3	.1							4.5	8.8
VARBL		.7	7.0	3.8	.7							8.3	10.6
CALM												2.7	
	9.4	19.7	36.5	29.5	1.9	.2						100.0	8.5

TOTAL NUMBER OF OBSERVATIONS 892

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

75621  
STATION

ALCONBURY RAF UK  
STATION NAME

77-82  
YEARS

JUL  
MONTH

ALL WEATHER  
CLASS

1800-2000  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.4	1.5	1.3	.6								4.9	6.1
NNE	.5	1.5	4.9	1.8	.3							9.0	8.6
NE	.8	1.3	3.7	1.5								7.3	8.1
ENE	.5	.5	1.3	1.0								3.4	8.0
E	.9	1.4	1.3	.5								4.1	6.5
ESE	.8	.9	.9	.3								2.8	6.0
SE	.6	.3	.5									1.4	4.6
SSE	.1	.9	.6									1.7	6.0
S	1.7	1.7	.1									3.4	3.6
SSW	1.7	2.1	1.9	1.3								7.0	6.6
SW	.8	1.8	2.2	1.4								6.2	7.8
WSW	2.2	2.7	3.6	.8								9.3	6.4
W	1.8	3.7	4.9	1.8								12.2	7.1
WNW	.5	2.3	1.9	1.2	.3							6.2	7.8
NW	.9	1.7	1.9	1.5								6.1	7.9
NNW	1.3	2.2	1.7	1.3	.1							5.9	7.2
VARBL			.5	.9	.1							1.5	11.4
CALM												7.6	
	16.5	26.4	32.7	16.0	.8							100.0	6.6

TOTAL NUMBER OF OBSERVATIONS

776

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

75621  
STATION

ALCONBURY RAF UK  
STATION NAME

77-82  
YEARS

III  
MONTH

ALL WEATHER  
CLASS

2100-2300  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.1	2.7	2.5	.3								7.6	5.6
NNE	.6	2.8	3.4	1.0								7.9	7.4
NE	1.3	2.4	.7									4.4	8.8
ENE	.9	1.2	1.2	.4								3.7	6.0
E	1.0	1.9	.4									3.4	8.5
ESE	.1	.7	.1									1.0	5.0
SE	.4	.0	1.2									2.5	6.1
SSE	.7	1.6	.3									2.7	4.7
S	1.9	2.1	.3									4.3	3.9
SSW	1.6	1.6	2.2	.9								6.4	6.6
SW	1.9	3.7	2.2	.7								8.6	5.6
WSW	2.5	3.6	2.5	.7								9.3	5.7
W	1.6	3.9	2.4	.6								8.4	6.0
WNW	.6	3.7	2.2	.1								6.7	6.0
NW	1.5	2.5	.9	.1								5.0	4.9
NNW	.7	1.0	.6	.9								3.3	7.3
VARBL			.3	.7								1.0	11.9
CALM												13.8	
	19.7	36.3	23.6	6.7								100.0	5.0

TOTAL NUMBER OF OBSERVATIONS

675

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
ATR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 25621 STATION NAME ALCONBURY RAF UK YEARS 77-82 MONTHS JUL  
CLASS ALL WEATHER HOURS (L.S.T.) ALL  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.5	3.0	3.2	1.4	.1							9.1	7.1
NNE	.6	1.8	3.3	1.9	.1							7.7	8.3
NE	.7	1.1	1.3	.7								3.7	7.2
ENE	.5	.8	.6	.4								2.2	6.7
E	.7	.8	.5	.3	.1							2.4	6.2
ESE	.4	.4	.3	.2								1.2	6.1
SE	.4	.4	.3	.1								1.2	5.4
SSE	.5	.6	.3	.1								1.4	4.9
S	1.3	2.5	1.0	.1								4.4	5.0
SSW	1.5	2.5	2.0	.9	.1							6.9	6.4
SW	1.3	2.8	2.9	1.7								8.7	7.3
WSW	1.7	2.9	3.2	1.4	.1							9.2	6.9
W	1.4	3.1	5.2	2.4	.1	.1						12.1	7.8
WNW	.7	2.1	2.6	1.9	.2	.1						7.4	8.4
NW	.8	1.8	1.6	1.3	.1							5.5	7.6
NNW	.7	1.4	1.3	1.0	.2							4.6	7.9
VARBL		.1	2.4	2.0	.1							.6	10.6
CALM												7.4	
	14.6	27.5	31.9	17.7	.9	.1						100.0	6.8

TOTAL NUMBER OF OBSERVATIONS 6376

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AF WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 35621 ALCONBURY RAF UK STATION NAME 73-82 YEARS AUG  
MONTH 0000-0200  
HOURS (L.E.V.)  
CLASS ALL WEATHER  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 56	%	MEAN WIND SPEED
N	3.9	4.7	3.2	1.3								13.1	5.7
NNE	1.5	4.2	1.2	.2								7.3	5.1
NE	1.5	1.8	.7									4.0	4.6
ENE	.3	.5	.8	.2								1.8	6.7
E	1.7	2.0	.7									3.7	4.8
ESE	.5	.5										1.0	3.8
SE	.8	.3										1.2	3.0
SSE	.7	1.0										1.7	3.5
S	2.3	1.8	.7	.5								5.4	5.0
SSW	4.4	2.7	1.5	.2	.5							9.2	5.2
SW	2.2	3.2	3.5	.7	.2							9.7	6.2
WSW	1.2	2.3	2.2	.2								5.9	5.9
W	2.2	2.7	2.2	.2								7.2	5.8
WNW	1.0	1.7	.8	.5								4.0	6.1
NW	.8	1.2	.7	.2								2.9	4.9
NNW	.7	1.5	1.5	.2								3.9	6.0
VARBL			.2									.2	10.0
CALM												18.1	
	25.0	32.2	19.8	4.2	.7							100.0	4.5

TOTAL NUMBER OF OBSERVATIONS 596

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIP WEATHER SERVICE/MAC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

35621  
STATION

ALCONBURY RAF UK

73-82

AUC

STATION NAME

YEARS

MONTH

ALL WEATHER

CLASS

0300-0500

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	3.5	6.7	3.1	.7								14.0	5.5
NNE	1.7	2.6	1.4									5.7	4.9
NE	1.0	.9	.5	.1								2.5	4.9
ENE	.2	.5	.2									1.0	5.8
E	.4	.7	1.0									2.1	5.9
ESE	.2	.4	.1									.7	4.2
SE	.4	.5		.1								1.0	4.8
SSE	.2	.1	.2									.6	4.8
S	2.6	1.9	1.1	.7	.2							6.3	5.6
SSW	3.2	4.7	1.2	.2	.4							9.8	5.1
SW	2.6	4.7	3.0	.5	.1							10.9	5.6
WSW	2.7	3.6	1.2	.4								7.2	5.2
W	1.5	4.8	2.7	.6								9.6	5.8
WNW	.9	3.7	1.6	.2								5.7	5.9
NW	1.5	1.1	.7	.1								3.5	4.9
NNW	.6	1.7	1.4									3.0	6.2
VARBL			.1									.1	9.0
CALM												16.5	
	22.5	37.0	19.6	3.6	.7							100.0	4.5

TOTAL NUMBER OF OBSERVATIONS

810

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

35621  
STATION

ALCONBURY RAF UK  
STATION NAME

77-82  
YEARS

AUG  
MONTH

ALL WEATHER  
CLASS

0600-0000  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.1	4.7	4.2	1.6								12.6	6.6
NNE	1.2	2.2	2.1	.6								6.0	6.5
NE	.8	1.6	.9	.1								3.5	5.8
ENE	.2	.8	.9									2.0	6.1
E	.9	1.2	.9									3.0	5.1
ESE	.2	.7	.5									1.4	5.4
SE	.7	.1		.1								.9	3.9
SSE		.9	.5	.1								1.5	6.4
S	1.0	2.2	1.7	.6	.1							5.7	6.5
SSW	1.6	3.9	3.7	1.2	.5							10.8	7.2
SW	1.3	2.9	3.2	1.0								8.4	6.9
WSW	1.3	2.9	2.3	.9								7.4	6.7
W	1.7	3.6	3.9	1.4								10.6	6.7
WNW	1.7	1.9	3.0	1.5	.1							7.5	7.5
NW	.7	1.8	1.2	.5								4.2	6.3
NNW	.6	1.4	1.2	.1								3.2	6.2
VARBL			.3	.1								.5	10.3
CALM												11.0	
	15.3	32.8	30.4	9.8	.7							100.0	5.9

TOTAL NUMBER OF OBSERVATIONS 867

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 35621 STATION NAME ALCONBURY RAF UK YEARS 73-62 MONTH AUG  
CLASS ALL WEATHER HOURS (L.S.T.) 0900-1100  
CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	2.4	3.7	1.8								9.3	7.5
NNE	.8	2.2	1.9	1.4								6.3	7.4
NE	.8	1.4	1.4	.7								4.3	6.9
ENE	.7	1.3	1.7	.4								3.6	7.2
E	.8	1.8	1.1	.3								4.0	5.9
ESE	.6	.7	1.1	.4								2.8	7.0
SE	.6	.4	.4	.2								1.7	5.9
SSE	.6	.4	.7									1.7	5.5
S	.7	1.3	2.4	1.7								5.4	7.5
SSW	1.1	1.7	2.6	1.7	.3	.2						6.2	9.0
SW	.8	2.4	2.4	2.4		.1	.1					8.3	8.8
WSW	.2	1.0	2.3	1.9	.1	.1						6.5	9.1
W	.7	1.7	3.5	3.0	.7							10.4	10.0
WNW	1.0	2.2	3.3	2.6	.2							9.4	8.7
NW	.4	1.7	1.7	.7								4.4	7.7
NNW	.4	.7	2.7	.7								4.7	7.3
VARBL	.1	.1	3.7	1.8								5.7	9.6
CALM												4.8	
	17.0	24.6	36.0	21.8	1.3	.4	.1					100.0	7.8

TOTAL NUMBER OF OBSERVATIONS 908



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

STATION 35621 STATION NAME ALCONBURY RAF UK YEARS 73-82 MONTH AUG  
CLASS ALL WEATHER HOURS (L.S.T.) 1200-1400  
CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	2.2	4.0	1.2	.1							8.3	7.8
NNE	.4	1.0	1.4	.9	.3							4.3	8.8
NE	.8	1.5	1.6	.9	.1							4.8	7.6
ENE	.8	1.7	1.4	.2								3.3	6.3
E	1.1	1.7	1.5	.5								4.8	6.5
ESE	.1	1.0	.8	.2								2.0	6.9
SE	.8	.8	.4	.5								2.5	6.4
SSE	.3	.6	.9									1.8	6.1
S	.3	1.1	1.9	.9								4.1	7.7
SSW	.4	1.7	2.2	1.7	.2	.1						5.6	9.4
SW	.5	.9	3.5	3.1	.1	.2						8.4	10.1
WSW	.5	1.5	2.8	2.2	.3							7.3	9.4
W	.9	2.6	5.1	5.6	.6	.1						14.8	9.9
WNW	.5	1.3	2.2	1.8	.1							5.9	8.6
NW	.5	1.7	1.5	1.3	.1							4.4	8.8
NNW	.5	2.7	2.7	.6	.1							5.4	7.2
VARBL	.1	.3	7.2	2.7	.5							10.2	9.6
CALM												2.6	
	9.1	21.2	40.3	23.7	2.7	.4						100.0	8.4

TOTAL NUMBER OF OBSERVATIONS 930

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

STATION 15621 STATION NAME ALCONBURY RAF UK YEARS 77-82 MONTH AUG  
 CLASS ALL WEATHER 1500-1700  
 HOUR (L.S.T.)  
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	3.1	2.9	1.3	.3	.1						3.3	8.0
NNE	.7	1.2	2.3	1.2	.3							5.7	8.4
NE	.7	1.7	2.9	1.2	.1							6.5	8.1
ENE	.2	1.5	1.8	1.0								4.5	7.7
E	.3	1.1	2.1	.4								3.9	7.4
ESE	.1	.4	.9	1.1								2.5	9.4
SE	.1	.8	.3	.2								1.4	6.9
SSE	.6	.9	1.2	.6								3.2	7.3
S	.4	.6	1.2	.9								3.1	8.3
SSW	1.1	.9	1.3	1.2								4.5	7.6
SW	.8	1.4	2.5	3.9	.3	.2						9.2	10.0
WSW	.7	2.7	2.8	2.9	.6							8.8	8.9
W	.6	2.7	4.6	3.5	1.4	.2						13.0	10.2
WNW	.8	1.5	3.2	1.5	.1							7.2	8.4
NW	.3	1.7	1.8	.9								4.6	7.5
NNW	.7	1.5	1.9	.9	.1							5.1	7.4
VARBL			3.9	1.3	.2							5.4	10.0
CALM												2.9	
	8.5	22.9	37.6	24.1	3.5	.5						100.0	8.4

TOTAL NUMBER OF OBSERVATIONS 925

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 75621 STATION NAME ALCONBURY RAF UK YEARS 73-82 MONTH AUG  
CLASS ALL WEATHER HOURS (L.S.T.) 1800-2000  
CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	2.4	2.8	1.3								7.7	6.9
NNE	.4	3.3	3.5	1.3								8.4	7.5
NE	.6	2.8	2.1	.8								6.3	6.9
ENE	.5	2.9	1.8	.6								5.8	6.5
E	1.7	1.6	2.1	.3								5.0	6.3
ESE	.6	1.8	1.7	.4								3.6	6.3
SE	.3	1.3	.9	.1								2.5	6.5
SSE	.5	.8	.6	.5								2.4	6.6
S	1.4	.5	2.7	.1								4.0	6.0
SSW	.9	1.6	3.7	.9								6.4	7.5
SW	.9	2.3	2.4	1.1	.3	.1						7.1	7.9
WSW	1.9	3.5	2.5	1.8	.1							9.8	7.1
W	1.9	2.8	2.9	1.9								9.5	7.1
WNW	1.6	2.1	2.3	1.7								7.1	6.5
NW	1.7	.9	.9	.5								3.3	5.8
NNW	1.6	1.6	1.1	.5	.1							5.0	6.0
VARBL		.1	.1									.3	7.5
CALM												5.5	
	16.4	32.3	32.2	13.0	.5	.1						100.0	6.5

TOTAL NUMBER OF OBSERVATIONS 793

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 175621 STATION NAME ALCONSBURY RAF UK YEARS 77-82 MONTH ALL  
CLASS ALL WEATHER HOURS (L.S.T.) 2100-2300  
CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	3.0	3.0	3.3	.9								1.3	5.8
NNE	.7	3.3	1.3	.1								5.5	5.4
NE	1.5	2.9	1.2	.4								6.4	5.5
ENE	.1	1.4	1.3									2.2	6.0
E	2.3	2.8	1.5									6.6	4.6
ESE	1.7	1.7	.1									3.2	3.5
SE	.4	1.6	.7									2.8	5.3
SSE	.7	2.2	.4	.4								3.5	5.9
S	2.3	1.3	.9	.6								5.1	5.2
SSW	2.9	1.5	3.0	.7								8.5	6.1
SW	2.0	2.0	4.1	.4								6.4	6.1
WSW	1.2	3.5	1.9	.7								6.8	5.7
W	1.5	3.5	2.5	.6								6.5	6.6
WNW	.7	1.9	1.2	.6								4.4	6.7
NW	.7	1.7	.6	.1								2.3	5.2
NNW	.6	1.5	.1	.3								2.5	4.9
VARBL													
CALM												12.3	
	21.0	37.4	23.7	5.5								100.0	5.0

TOTAL NUMBER OF OBSERVATIONS 689

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

75621 ALCONBURY RAF UK 77-82  
STATION STATION NAME YEARS  
ALL WEATHER CLASS  
ALL HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.9	3.6	3.4	1.3	.1	.7						1.02	6.6
NNE	.9	2.4	1.9	.8	.1							.52	6.8
NE	.9	1.7	1.5	.6	.7							.48	6.6
ENE	.3	1.3	1.3	.7								.32	6.7
E	.9	1.6	1.4	.2								.41	5.9
ESE	.4	.9	.6	.3								.22	6.3
SE	.5	.7	.4	.2								.17	5.7
SSE	.4	.8	.6	.2								.21	6.1
S	1.3	1.7	1.6	.6	.7							.48	6.5
SSW	1.5	2.1	2.3	1.7	.2	.7						.75	7.0
SW	1.3	2.5	3.7	1.8	.1	.1	.7					.89	7.8
WSW	1.1	2.6	2.3	1.4	.2	.7						.75	7.5
W	1.2	3.0	3.5	2.4	.4	.7						1.55	8.3
WNW	.9	1.7	2.3	1.3	.1							.66	7.6
NW	.7	1.4	1.2	.6	.7							.39	6.7
NNW	.7	1.5	1.4	.4	.7							.42	6.7
VARBL	.7	.1	2.2	.7	.1							.31	9.7
CALM												.86	
	15.4	29.5	37.8	14.1	1.4	.7	.7					100.0	6.5

TOTAL NUMBER OF OBSERVATIONS 6498

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

75621  
STATION

ALCONBURY RAF UK  
STATION NAME

77-82  
YEARS

SEP  
MONTHS

ALL WEATHER  
CLASS

0000-2200  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	3.1	3.6	.9								8.4	7.0
NNE	.5	.9	.9	.4	.2							2.9	7.4
NE	.7	.4	.7	.2	.2							2.2	6.9
ENE		.2	.4									.5	6.0
E	.5	1.7	.4	.4								2.6	5.6
ESE	.7	.4	.4	.4								1.8	6.1
SE	.4	1.1	.7	.4	.2							2.7	7.3
SSE	.5	1.7	.9	.5								3.3	6.4
S	2.4	2.7	2.2	.5	.2							8.0	5.8
SSW	3.5	3.6	4.2	1.6	.5							13.5	6.9
SW	1.5	4.4	4.9	.7								11.5	6.7
WSW	1.6	2.9	2.0	1.5	.2							8.2	7.0
W	.7	3.6	4.0	.5								8.9	6.7
WNW	1.6	1.1	.4	.2								3.3	4.4
NW	1.5	1.3	.4	.2	.9							4.2	7.6
NNW	.9	1.3	1.8	1.1	.2							5.3	7.7
VARBL			.2	1.1		.4						1.6	15.2
CALM												11.1	
	17.9	29.5	28.1	10.6	2.6	.4						100.0	6.1

TOTAL NUMBER OF OBSERVATIONS 549

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 35621 STATION NAME ALCONBURY RAF UK YEARS 73-82 SEP SOFT  
CLASS ALL WEATHER 7300-7600  
HOURS (L.E.T.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	2.3	3.1	.5	.1							7.1	6.7
NNE	.4	.8	.4	.1	.1							1.6	6.3
NE	.3	.1	.9									1.3	6.4
ENE	.1	.4	.1									.6	4.8
E	.4	.9	.6	.3								2.2	6.4
ESE	.5	.9	.5	.1								2.1	5.7
SE	.3	.6	.5									1.4	5.6
SSE	1.2	1.2	.9	.1								3.3	5.2
S	1.9	5.3	3.1	1.3								11.5	6.2
SSW	3.3	5.1	3.7	1.5	.3							14.0	6.3
SW	1.9	6.7	3.7	1.9	.1							14.4	6.6
WSW	1.7	3.7	2.4	.8								8.6	6.0
W	1.4	3.5	3.3	.9								9.1	6.5
WNW	.4	1.7	1.2									3.1	5.9
NW	.5	1.2	1.7	.1	.3							3.2	7.2
NNW	.5	1.0	1.4	.5	.5	.3						4.2	9.8
VARBL			.6	.4	.1	.1						1.3	12.9
CALM												10.9	
	15.9	35.3	27.4	8.6	1.5	.4						100.0	5.8

TOTAL NUMBER OF OBSERVATIONS 780

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

75621  
STATION

ALCONBURY RAF UK  
STATION NAME

73-82  
YEARS

SEP  
MONTH

ALL WEATHER  
CLASS

0600-0800  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	2.2	3.2	1.6	.4							9.3	7.8
NNE	.4	.2	.4									1.2	5.6
NE	.4	.7	.7									1.8	5.4
ENE	.2	.2	.5									1.2	6.1
E	.5	.9	.7	.2								2.3	5.9
ESE	.1	.4	.2	.2	.1							1.1	8.7
SE	.5	.9	.9									2.2	5.9
SSE	.5	1.6	2.2	.4								4.4	6.6
S	2.7	3.9	2.6	.7	.4							9.4	6.3
SSW	2.2	5.7	4.9	2.5								14.5	6.7
SW	.4	5.7	4.8	3.1		.7						13.4	8.3
WSW	1.0	4.2	3.1	1.8	.1							10.1	7.4
W	1.3	3.2	3.8	1.3	.6							10.3	7.7
WNW	.4	1.6	1.7									3.7	6.2
NW	.2	.9	1.7	.7	.2							3.8	8.9
NNW	.2	.7	1.3	.6	.4							3.3	9.4
VARBL			.1		.1							.2	15.0
CALM												9.1	
	11.7	32.2	32.5	13.0	2.3	.2						100.0	6.7

TOTAL NUMBER OF OBSERVATIONS

818



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 75621 ALCONBURY RAF UK STATION NAME 77-82 YEARS SEP 1900-1100 HOURS (L.S.T.)  
ALL WEATHER CLASS  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.0	1.4	2.9	3.0	.1							8.4	9.2
NNE	.6	.8	1.3									2.7	6.2
NE	.6	.5	.2									1.4	4.3
ENE	.7	.2	.7	.5								2.1	6.3
E	.8	.7	.7	.6								2.8	6.7
ESE	.4	.2	.9	.4	.1							2.0	8.5
SE	.2	.5	.9	.7								2.3	8.6
SSE	.5	1.1	.8	.6								2.9	7.2
S	.6	2.5	3.4	2.3	.5							9.2	8.5
SSW	.5	1.0	5.1	2.1	.1							9.7	8.5
SW		1.9	4.7	5.1	.6	.4						11.9	11.1
WSW	.5	1.4	3.3	4.4	.5							10.0	10.3
W	1.4	1.4	5.5	5.5	.4	.2						14.7	9.9
WNW	.1	.0	2.1	1.1	.6							4.7	10.1
NW	.2	.4	1.6	1.1	.4							3.9	9.6
NNW	.1	1.4	1.9	.5	.6	.1						4.6	9.4
VARBL			2.6	1.5	.1							4.2	10.2
CALM												2.6	
	8.1	17.6	17.9	29.3	3.9	.7						100.0	9.0

TOTAL NUMBER OF OBSERVATIONS 257

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 35621 STATION NAME ALCONBURY RAF UK YEARS 73-82 MONTH SEP  
ALL WEATHER  
CLASS  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	.9	3.0	1.5	.2							6.8	9.1
NNE	.1	.9	1.4	.5								2.9	7.8
NE	.1	1.0	.8									1.9	6.3
ENE	.5	.2	.5	.2								1.4	6.9
E	.5	1.5	.6	.6								3.1	6.4
ESE	.5	.2	.7	.7								2.1	7.7
SE	.7		.6	.7	.2							2.2	6.8
SSE	.2	.1	.6	.8	.1							1.8	9.8
S	.5	1.8	3.1	1.8	.2	.1						7.6	9.0
SSW	.6	2.7	3.1	3.2	.7	.1						9.5	9.7
SW	.3	.7	3.1	5.3	.3		.2					10.3	11.8
WSW	.7	1.3	3.7	3.2	1.3	.1						10.1	11.4
W	.7	1.6	7.2	6.6	1.7							17.8	10.7
WNW	.1	1.7	2.1	2.4	.7	.1						7.1	10.4
NW	.2	.7	1.3	.6	.7							3.4	10.1
NNW	.5	1.1	.9	.5	.5							3.4	8.6
VARBL			4.5	7.2								6.6	9.9
CALM												2.1	
	6.3	16.2	36.8	31.5	6.3	.5	.2					170.0	9.7

TOTAL NUMBER OF OBSERVATIONS 874

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 155621 STATION NAME ALCONBURY RAF UK YEARS 77-82 SEP MONTH  
CLASS ALL WEATHER 1500-1700 HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	.2	2.3	2.1	.2							5.2	9.7
NNE	.1	.2	1.9	.7								2.9	9.2
NE	.5	.8	1.2	.1								2.6	6.2
ENE	.4	.4	.7	.1								1.5	6.5
E	.5	.7	.9	1.1								3.2	8.2
ESE	.6	.6	.6	.5								2.2	6.8
SE	.4	.6	.2	.7								1.9	7.9
SSE	.2	.5	1.1	.2	.1							2.1	8.1
S	.1	2.9	3.7	1.1	.2							8.1	8.7
SSW	.5	3.5	2.9	2.2	.7	.1						10.0	9.1
SW	.6	1.0	3.4	3.6	.5	.2						9.7	10.4
WSW	1.1	1.4	2.7	3.7	1.1	.1	.2					10.3	11.0
W	.5	2.3	6.8	5.2	.8							15.6	10.0
WNW	.4	1.2	3.4	2.3	1.1	.1						9.1	10.3
NW	.8	1.3	1.6	.8	.4	.2						5.2	8.9
NNW	.7	1.6	.8	.7	.2							4.1	7.3
VARBL			2.2	.9	.1							3.3	10.3
CALM												2.5	
	1.5	2.7	16.5	26.3	5.4	.3	.2					100.0	9.1

TOTAL NUMBER OF OBSERVATIONS 654

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIP WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 35621 ALCONBURY RAF UK YEARS 77-82 SEP MONTH  
ALL WEATHER CLASS 1800-2000 HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) Dir.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	1.5	2.3	1.8	.5							6.3	8.9
NNE	.5	1.1	1.2	.1								3.2	6.3
NE	.4	1.1	1.4									2.9	6.3
ENE	.4	.9	.7	.1								2.0	5.9
E	.7	.7	1.0	.1								2.5	6.1
ESE	.8	1.1	.4	.5								2.9	6.4
SE	.7	.8	.8	.4								2.7	6.6
SSE	1.0	1.1	2.0									4.1	5.8
S	3.7	2.3	4.5	1.1	.4							12.0	6.5
SSW	2.5	1.1	2.3	.8	.1							6.8	6.7
SW	1.5	1.9	4.1	2.6	.4	.1						10.6	8.7
WSW	1.4	3.1	3.3	2.2	.3	.1	.1					10.5	8.2
W	2.6	2.9	2.9	1.4								9.7	6.1
WNW	1.4	2.2	1.9	.8	.4							5.7	7.3
NW	.5	1.9	1.1	.7	.4							4.6	7.7
NNW	.5	1.3	.4	.4								3.1	6.2
VARBL			.3									.3	9.0
CALM												8.9	
	19.2	25.3	30.5	13.1	2.6	.3	.1					100.0	6.5

TOTAL NUMBER OF OBSERVATIONS 734

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 35621 STATION NAME ALCONBURY RAF UK YEARS 77-82 MONTH SEP  
CLASS ALL WEATHER MONTHS 2110-2300  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.4	1.4	3.0	1.1	.3							7.2	7.7
NNE	.2	.6	.6	.2	.2							1.7	7.7
NE	.2	.8	.3	.5								1.7	7.2
ENE	.6	.9	1.1									2.7	5.4
E	.3	1.3	.5	.6								2.7	7.1
ESE	.2	.6	.3	.2	.2							1.4	7.8
SE	.6	1.1	1.4		.2							3.3	6.5
SSE	.6	2.7	.9	.2	.2							4.6	5.7
S	1.9	3.6	2.7	.6	.5							9.3	6.8
SSW	4.1	3.1	3.6	1.7	.5							13.2	6.4
SW	2.2	2.5	4.4	3.7	.2							12.6	7.9
WSW	1.7	3.7	2.2	.7	.5	.7						6.2	7.4
W	2.0	2.4	2.8	.2	.2							7.5	5.9
WNW	1.4	2.7	.9	.6	.3							5.3	6.6
NW	.6	1.6	.8	.7	.7							3.8	7.3
NNW	1.1	1.3	1.7	.6	.2							4.9	7.3
VARBL				.2								.2	15.2
CALM												10.2	
	19.2	28.9	27.3	10.7	3.5	.3						10.3	6.2

TOTAL NUMBER OF OBSERVATIONS 677

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

75621 ALCONBURY RAF UK 73-82  
STATION STATION NAME YEARS  
ALL WEATHER  
CLASS  
CONDITION  
SEP  
MONTH  
ALL  
MONTH (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	1.6	2.9	1.7	.2							7.4	8.3
NNE	.3	.7	1.1	.7	.7							2.4	7.2
NE	.4	.7	.8	.1	.7							2.3	6.1
ENE	.4	.4	.6	.1								1.5	6.1
E	.5	1.0	.7	.5								2.7	6.7
ESE	.5	.5	.5	.4	.7							1.9	7.1
SE	.5	.7	.7	.4	.1							2.3	7.2
SSE	.5	1.1	1.1	.4	.7							3.2	6.6
S	1.5	3.1	3.2	1.2	.3	.7						9.4	7.1
SSW	1.9	3.3	3.7	1.9	.3	.7						11.2	7.5
SW	1.0	3.0	4.7	3.4	.3	.1	.7					11.8	9.0
WSW	1.1	2.6	2.9	2.4	.5	.1	.7					9.6	8.9
W	1.3	2.6	4.7	3.7	.5	.7						12.1	8.7
WNW	.6	1.6	1.8	1.7	.4	.7						5.5	8.5
NW	.6	1.1	1.2	.6	.4	.7						4.0	8.5
NNW	.5	1.3	1.3	.6	.3	.7						4.7	8.3
VARBL			1.5	.8	.1	.7						2.4	10.7
CALM												6.6	
	12.6	25.2	32.6	18.8	3.6	.5	.1					100.0	7.6

TOTAL NUMBER OF OBSERVATIONS 6103

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

35521 STATION ALCONBURY RAF UK 73-82 YEARS OCT 1973  
ALL WEATHER CLASS 0000-0200 HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.4	3.2	1.8	.7	.4							7.6	6.4
NNE	.7	.7	2.0	.4								3.8	7.0
NE	.2	1.4	1.3									2.9	5.8
ENE		1.4	.5									2.2	5.8
E	1.1	1.9	.4									3.2	4.6
ESE	1.8	.5	.2	.2								2.7	3.7
SE	.5	1.4	1.3	.5								4.1	7.4
SSE	1.1	.9	.9	.9								3.8	6.8
S	3.6	2.9	2.0	.2	.7							9.4	6.0
SSW	3.4	4.5	1.3	1.4	.4							11.0	5.9
SW	2.2	3.1	1.8	1.4	.2							8.6	6.6
WSW	1.3	2.7	1.6	.5								6.1	6.0
W	1.8	1.6	3.1	2.7	.2	.2						9.5	8.2
WNW	1.3	.7	1.1	.9	.5	.7						5.2	10.6
NW	.7	.7	.7			.4						2.5	7.9
NNW	1.1	.4	2.0	2.3	1.4							7.2	11.0
VARBL													
CALM												10.1	
	22.2	29.3	21.8	12.6	3.8	1.3						100.0	6.3

TOTAL NUMBER OF OBSERVATIONS 556

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 35621 ALCONBURY RAF UK STATION NAME 7-82 YEARS OCT MONTH  
ALL WEATHER CLASS 3300-2500 HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.5	2.6	1.6	.6	.6							7.2	7.2
NNE	.8	1.4	1.4	.6								4.1	6.8
NE	.4	.5	.3	.1								1.3	5.8
ENE	.6	1.0	.9									2.5	5.7
E	1.5	1.6	1.0									4.1	4.3
ESE	.6	1.5	.5	.6								3.3	6.5
SE	.6	.9	1.4	.3								3.1	6.6
SSE	1.1	1.4	1.5	.5	.1							4.6	6.5
S	2.1	2.9	3.1	.6	.5							9.3	6.7
SSW	2.5	3.0	2.0	1.3								8.8	6.1
SW	1.8	3.3	2.0	2.1	.4							9.5	7.6
WSW	1.1	3.6	2.8	1.1								8.6	6.6
W	2.3	2.1	3.4	1.6	.3	.7						9.9	7.8
WNW	.9	1.4	1.8	.5	.6							5.0	8.3
NW	.6	.4	1.4	.4	.3	.1						3.1	8.9
NNW	.6	.8	1.8	1.8	.5							5.4	9.9
VARBL													
CALM												10.3	
	18.9	28.3	26.7	12.2	3.3	.4						100.0	6.3

TOTAL NUMBER OF OBSERVATIONS 798



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 175621 STATION NAME ALCONBURY RAF UK YEARS 77-82 DCT NOVA  
CLASS ALL WEATHER 0600-0800  
CONDITION NOVA (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.2	2.2	1.8	.9		.4						7.3	6.9
NNE	.7	.7	.7	.6								2.6	7.0
NE	.4	.6		.2	.1	.1						1.5	8.8
ENE	.4	.6	1.1									2.1	6.2
E	1.7	2.0	1.2									5.1	5.0
ESE	.6	.9	1.4	.6								3.5	6.9
SE	.2	2.1	.6	1.1								4.1	7.0
SSE	.7	1.7	1.0	.7								3.5	7.0
S	2.6	3.5	2.8	1.7	.2	.2						10.4	6.9
SSW	2.5	4.7	1.2	1.4	.2							10.0	6.0
SW	1.1	3.7	1.8	3.1	.1							9.9	6.0
WSW	1.1	2.7	2.7	1.7	.2							8.5	7.8
W	.9	2.3	3.1	1.5	.2							8.0	7.9
WNW	1.1	.5	2.2	1.2	.5	.1						5.7	9.4
NW	.7	.7	1.4	1.7	.2							4.1	8.5
NNW	.4	.0	2.7	1.5	.4	.1						5.2	9.8
VARBL				.2								.2	14.0
CALM												3.6	
	16.4	29.7	25.2	16.8	2.3	1.0						100.0	6.8

TOTAL NUMBER OF OBSERVATIONS 811

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR FATHER SERVICE/PAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 75421 STATION NAME ALCONBURY RAF UK YEARS 77-82 MONTH OCT  
 CLASS ALL WEATHER  
 CONDITION 0000-1100  
 HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.9	1.0	2.3	3.2	.2	.4						9.8	9.0
NNE	.6	.7	1.9	.2	.4							3.8	6.1
NE	.4	.4	.8	.4								1.9	7.4
ENE		.1	.5	.4								1.0	9.0
E	.7	.0	1.9	.7	.2							4.4	7.9
ESE	.4	1.2	1.9	.6		.1						4.2	0.1
SE	.2	1.7	1.7	.8		.1						4.2	6.3
SSE	.4	.0	1.4	1.1								3.7	8.2
S	1.1	2.6	3.2	2.5	.2							9.7	8.3
SSW	.6	3.2	3.5	2.5	.1							7.5	8.3
SW	.8	2.3	3.6	4.2	.4	.1						11.4	9.9
WSW	.5	1.3	1.9	1.9	.7	.1						6.5	10.0
W	.6	1.3	2.4	3.7	.6							8.6	10.4
WNW	.2	1.2	.8	2.8	1.7							6.0	11.6
NW	.4	.4	1.6	1.7	.7	.2						4.2	11.6
NNW	.1	.7	2.2	1.8	.4	.2						5.4	10.8
VARBL			.1	.2								.4	12.3
CALM												5.4	
	3.9	20.2	31.7	27.5	4.9	1.2						100.0	8.8

TOTAL NUMBER OF OBSERVATIONS 835

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

5621  
STATION

ALCONBURY RAF UK  
STATION NAME

77-82  
YEARS

OCI  
SCALE

ALL WEATHER  
CLASS

1200-1600  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	2.3	3.7	2.1	1.1	.1						1.2	9.6
NNE	.2	.5	1.4	1.4	.5							4.7	10.6
NE	.2	.4	1.2	.9								2.7	9.1
ENE	.1	.4	.1	.2								.8	7.1
E	.1	1.4	.9	1.1	.1							3.6	9.2
ESE	.2	.5	1.3	.8	.1							2.9	9.0
SE	.1	.0	1.8	1.3	.2							4.2	9.5
SSE	.6	1.2	2.5	2.1								6.3	8.8
S	.4	1.5	4.7	3.2	.1							2.3	9.3
SSW	.6	1.1	2.6	2.9	.1							7.2	9.4
SW	.6	1.2	3.6	4.3	.6							10.3	10.4
WSW	.4	1.4	2.7	2.6	.6	.1						7.2	10.6
W	.5	1.5	1.3	3.9	.6	.7						7.9	11.0
WNW	.5	1.3	1.2	3.3	.6	.7						7.5	11.8
NW	.9	1.7	1.2	2.0	.1							5.7	8.7
NNW	.2	.5	1.3	2.2	.7	.2						5.1	12.1
VARBL		.2	.7	.5								1.4	9.3
CALM												3.9	
	6.4	17.7	30.6	34.7	5.3	1.5						100.0	9.6

TOTAL NUMBER OF OBSERVATIONS

857

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 75621 STATION NAME ALCONBURY RAF UK YEARS 73-82 DCT NORTH  
ALL WEATHER CLASS 1500-1700 HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.4	2.1	1.7	1.8	.5	.1						7.6	8.4
NNE	1.2	.6	2.1	1.4								5.9	7.7
NE	.1	.5	1.6	.5								2.6	8.5
ENE	1.1	.2	.8									2.1	5.3
E	.8	1.1	1.1	.7	.1							3.9	7.3
ESE	.2	.8	1.2	.2								2.5	6.8
SE	.4	1.3	1.3	1.6								4.5	8.7
SSE	.7	1.2	1.4	1.3	.1							4.8	8.3
S	1.7	3.2	3.9	1.6	.7							10.6	7.6
SSW	.6	2.5	2.4	2.6	.7							9.4	9.0
SW	.5	2.7	3.7	2.4	.7							9.3	9.6
WSW	.7	1.2	1.7	1.7	.2							5.5	9.0
W	1.4	1.9	2.6	3.7	.6							9.5	8.8
WNW	.4	1.7	2.7	1.8	.6	.7						6.7	10.0
NW	.2	1.7	1.9	1.8								4.9	9.1
NNW	.8	1.1	1.8	.6	.7							5.7	8.4
VARBL			.2	.1								.4	11.0
CALM												6.3	
	12.3	22.4	31.5	23.0	4.1	.4						100.0	8.0

TOTAL NUMBER OF OBSERVATIONS 838

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 35521 ALCONBURY RAF UK STATION NAME YEARS 73-82 DCT MONTH 1800-2000 HOURS (L.E.T.)  
ALL WEATHER CLASS  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.5	1.8	2.3	1.2	.3							7.1	7.5
NNE	1.2	2.0	1.4	.1								4.8	5.4
NE	.4	1.1	1.0									2.5	5.7
ENE	.8	1.1	1.0									2.9	5.3
E	1.1	1.5	1.2									3.8	4.8
ESE	1.2	1.8	1.8		.3							5.0	6.2
SE	.5	1.8	1.2	.5								4.1	6.8
SSE	.5	1.5	1.9	.5								4.5	6.7
S	2.6	2.3	2.2	1.6	.4							9.1	7.0
SSW	4.1	2.3	1.4	1.5	.1	.3						9.7	6.1
SW	1.4	2.2	4.5	1.2	.4							9.7	7.8
WSW	1.6	2.3	2.2	1.9	.1							8.2	7.6
W	1.5	3.0	3.5	1.0								9.0	6.4
WNW	1.7	1.7	1.6	1.1	.4							5.7	8.6
NW	.1	.5	.4	1.1	.3							2.5	10.7
NNW	.5	.5	2.2	1.4	.1							4.8	9.1
VARBL													
CALM												7.4	
	20.2	26.7	29.7	13.2	2.5	.3						100.0	6.5

TOTAL NUMBER OF OBSERVATIONS 733

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AF WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

075621  
STATION

ALCONBURY RAF UK  
STATION NAME

73-82  
YEARS

OCT  
MONTH

ALL WEATHER  
CLASS

2100-2300  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	2.7	2.4	.8	.2							7.0	6.8
NNE	.3	1.1	1.7	.7								3.5	7.3
NE	.6	1.2	.9									2.7	5.4
ENE	.3	.9	.5									1.5	5.4
E	.9	1.7	1.2									3.8	5.2
ESE	.8	2.7	1.1									3.8	5.1
SE	.8	.6	.8	.8	.2							3.1	7.7
SSE	.9	2.3	.8									4.0	5.1
S	2.9	4.1	3.4	.8								11.1	5.7
SSW	4.3	4.7	1.5	1.4	.2							11.3	5.7
SW	1.4	1.2	1.8	2.1	.5	.7						7.8	8.5
WSW	1.5	3.4	3.1	1.4	.3							9.6	7.1
W	.8	1.2	4.1	1.2	.3							7.6	8.2
WNW	.5	.8	1.5	.6	.5	.7						4.1	10.3
NW	.5	1.1	.3	.5	.3							2.6	8.2
NNW		.7	1.2	2.4	.6							5.2	11.2
VARBL			.2									.2	8.0
CALM												11.0	
	18.0	28.9	26.4	12.4	2.9	.5						100.0	6.3

TOTAL NUMBER OF OBSERVATIONS 655

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIF WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 15621 ALCONBURY RAF UK STATION NAME 77-82 YEARS OCT  
CLASS ALL HOURS (L.E.T.) ALL  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.5	2.2	2.2	1.5	.4	.1						3.3	8.0
NNE	.7	.9	1.6	.7	.1							4.0	7.5
NE	.3	.7	.9	.3	.0	.0						2.2	7.2
ENE	.4	.7	.7	.1								1.9	5.9
E	.9	1.6	1.2	.3	.1							4.0	6.1
ESE	.7	1.1	1.2	.4	.0	.0						3.5	6.7
SE	.4	1.3	1.3	.9	.0	.0						3.9	7.9
SSE	.7	1.3	1.5	.9	.0							4.4	7.9
S	2.0	2.9	3.1	1.5	.3	.0						9.9	7.3
SSW	2.2	3.1	2.0	1.9	.2	.0						9.3	7.0
SW	1.2	2.4	2.9	2.7	.4	.0						9.7	8.7
WSW	1.0	2.3	2.2	1.7	.3	.0						7.5	8.1
W	1.2	1.7	2.9	2.4	.4	.1						8.8	8.6
WNW	.7	1.1	1.5	1.6	.6	.2						5.7	10.2
NW	.5	.8	1.2	1.0	.2	.1						3.8	9.3
NNW	.5	.7	1.8	1.7	.6	.1						5.3	10.3
VARBL		.0	.2	.1								.3	10.4
CALM												7.6	
	14.9	25.0	28.3	19.7	3.7	.6						100.0	7.8

TOTAL NUMBER OF OBSERVATIONS 6082

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

5621  
STATION

ALCONBURY RAF UV  
STATION NAME

73-77, 79, 81-82  
YEARS

NOV  
MONTH

ALL WEATHER  
CLASS

0000-0200  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.1	3.1	2.1	1.0								2.4	6.3
NNE		.2	1.3	.2								1.7	8.1
NE	.4		.2									.6	4.7
ENE	.4		.6									1.0	6.8
E	.8	1.0										2.1	4.1
ESE			.2									.2	7.0
SE	.2	.2	.6									1.0	6.6
SSE	.4	.6	.6	.2	.2							2.1	7.4
S	2.7	2.3	3.8	1.5	.4							10.7	7.2
SSW	3.3	5.0	3.6	1.9		.2						14.0	6.3
SW	1.9	1.7	5.7	4.4	.2	.6						13.8	9.7
WSW	1.0	3.6	3.6	2.5	.6							11.3	8.4
W	.6	2.7	5.6	1.3	1.5	.2						11.9	9.2
WNW	1.3	2.3	.8	1.9	.2	.2						6.7	8.5
NW	.6	.2	1.0	1.3		.2						3.3	10.3
NNW	.9	1.0	1.3	.2	1.0							4.4	9.4
VARBL													
CALM												6.7	
	16.7	24.3	35.3	16.3	4.2	1.5						100.0	7.5

TOTAL NUMBER OF OBSERVATIONS

478



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

5621 ALCONBURY RAF UK 72-82 NOV  
STATION NAME STATION NAME YEARS  
ALL WEATHER CLASS 300-0500  
HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.1	3.2	1.1	1.1	.4							7.9	6.5
NNE	.3	.8	.6	.1								1.8	5.7
NE		.4	.4	.3								1.1	8.0
ENE	.4	.3	.3	.3	.1							1.4	8.3
E	.3	.3		.4								1.0	8.1
ESE	.1	1.7	.1	.1								1.4	5.1
SE	.4	.3	.3									1.0	4.7
SSE	.4	1.7	1.7		.1							2.5	6.8
S	1.7	3.2	3.9	1.8	.4	.1						11.0	7.6
SSW	1.1	3.2	4.4	3.6	.3							12.5	8.4
SW	1.2	2.5	3.3	5.1	.4	.4						12.9	9.6
WSW	1.5	2.6	4.1	3.9	.4							12.5	8.8
W	.7	4.4	4.7	2.7	.6	.4						13.2	8.8
WNW	.3	1.4	1.2	1.9	.6							5.2	9.8
NW	.3	.7	1.7	.7								2.6	8.3
NNW	.6	1.1	1.1	1.7	.4							4.7	9.9
VARBL			.1									.1	10.0
CALM												7.2	
	11.3	26.0	27.5	23.4	3.6	1.7						100.0	7.8

TOTAL NUMBER OF OBSERVATIONS 726

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

35621  
STATION

ALCONBURY RAF UK  
STATION NAME

77-82  
YEARS

NOV  
MONTH

ALL WEATHER  
CLASS

0600-0800  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	3.7	1.7	1.8								7.8	7.2
NNE	.3	.1	.4									.6	6.7
NE	.4	.3	.8	.3								1.7	7.2
ENE		.3	.4	.5	.3	.1						1.6	12.3
E	.6	.4	.1	.1								1.3	4.7
ESE	.5	.4	.5	.1								1.6	5.8
SE	.4	1.3	.5									2.2	5.5
SSE	.3	1.3	.6	.1								2.3	6.1
S	.9	3.1	3.7	2.3	.5							9.9	8.4
SSW	1.4	3.7	3.7	3.6	.9	.1						13.2	8.8
SW	1.2	4.3	4.4	4.5	.3	.3						14.9	8.9
WSW	.8	3.7	4.9	1.7								10.6	7.4
W	1.6	2.2	5.6	3.7	.6	.1	.1					13.2	9.3
WNW	.6	1.3	1.4	.9	.3	.4						4.9	9.5
NW	.3	.6	.6	.9								2.5	8.4
NNW	.3	.8	1.9	2.3	.3	.1						5.7	10.1
VARBL			.1	.3								.4	13.0
CALM												5.6	
	1.8	26.5	30.1	22.6	3.1	1.2	.1					10.0	7.9

TOTAL NUMBER OF OBSERVATIONS 770

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 35621 STATION NAME ALCONBURY RAF UK YEARS 70-80 MONTH NOV  
CLASS ALL WEATHER DATES 900-1100  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	1.9	2.7	1.6	.4							7.2	8.4
NNE	.9	.5	1.0									2.7	5.4
NE	.3	.5	.3	1.3								2.3	9.4
ENE	.1	.4	.4	.3	.1	.1						1.4	12.4
E	.1	.4	.3			.1						.9	8.1
ESE		.2			.1							1.0	6.8
SE	.1	.8	.9	.1								1.9	6.9
SSE	.6	.5	1.6	.1								2.9	6.7
S	.8	2.8	1.9	2.8	.5	.4						9.1	9.4
SSW	1.1	3.5	4.7	3.7	.9	.1						14.1	9.3
SW	.4	2.0	4.9	6.3	1.3							15.7	10.7
WSW	.6	1.8	3.7	3.2	.4							9.6	9.5
W	1.3	1.5	4.4	3.2	1.7	.1						11.5	9.7
WNW	.3	.3	1.4	2.0	.4	.4						5.1	13.0
NW		.1	.9	1.9	.3							3.5	11.4
NNW	.5	1.1	2.8	1.8	.1	.3	.1					.7	10.2
VARBL			.6	.8	.3	.3						1.9	14.3
CALM												2.5	
	7.7	20.4	32.4	29.0	6.1	1.8	.1					100.0	9.5

TOTAL NUMBER OF OBSERVATIONS 790

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 05621 STATION NAME ALCONBURY RAF UK YEARS 77-82 MONTH NOV

CLASS ALL WEATHER HOURS (L.S.T.) 1200-1400

CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.2	1.8	2.8	1.3	.1	.1						6.4	8.8
NNE	.4	.2	.1	.5								1.2	8.5
NE	.1	.5	.8	.6								2.1	8.4
ENE	.2	.1	.8	.5	.5	.1						2.3	11.5
E	.6	.4	.4	.2	.2							2.1	7.6
ESE	.1	.2			.1							.5	7.3
SE	.1	.6	.1	.2								1.1	7.3
SSE	1.0	.7	1.1	.8								3.6	7.3
S	1.1	1.7	2.3	1.7	.5	.2						7.5	9.1
SSW	.8	2.1	3.4	3.5	2.1	1.1						12.8	11.7
SW	.5	1.7	5.9	6.9	2.1	.1						17.1	11.2
WSW	.1	1.1	3.1	4.0	.7							9.0	11.0
W	.6	1.2	3.0	4.5	.7	.1						10.1	10.8
WNW	.2	.6	1.2	3.3	1.1	.2	.2					7.5	14.0
NW	.4	.5	1.7	2.5	1.6							6.6	12.4
NNW		.7	2.2	2.3	.4	.5						6.2	11.7
VARBL			.2	1.0	.1	.2						1.6	15.5
CALM												2.5	
	6.8	14.1	29.2	33.8	10.1	3.3	.2					100.0	10.6

TOTAL NUMBER OF OBSERVATIONS 829

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 75621 ALCONBURY RAF UK STATION NAME 77-82 YEARS NOV MONTH  
ALL WEATHER CLASS 1500-1700 HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	1.3	2.2	.8	.1	.4						5.8	8.3
NNE	1.2	.5	.6	.6								2.7	6.3
NE	.4	.1	.6	1.1								2.2	9.3
ENE			.1	.5	.4							1.2	14.5
E		.1	.2	.2	.1							.7	11.5
ESE	.4	.5	.2	.2								1.3	6.1
SE	.4	.6	.5									1.5	5.4
SSE	.6	.6	.7	.7								2.7	7.1
S	1.6	1.8	2.1	2.1	.8							8.4	8.7
SSW	1.6	3.8	3.0	2.9	1.1	.4						12.7	8.9
SW	.5	3.0	6.4	6.8	.8	.1						17.8	10.3
WSW	.4	1.5	2.4	2.7	.4							7.3	9.7
W	1.5	2.8	3.0	3.2	1.0	.1						11.5	9.2
WNW	.6	1.5	3.4	2.9	.8	.5						9.7	10.7
NW	.4	1.0	2.2	1.1	.2	.1						5.0	9.0
NNW	.4	1.0	1.6	1.5	.2	.1						4.7	9.6
VARBL			.1	.4	.1							.6	14.2
CALM												4.5	
	10.5	20.0	29.5	27.6	6.2	1.7						100.0	8.9

TOTAL NUMBER OF OBSERVATIONS 825

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 35521 ALCONBURY RAF UK YEARS 73-82 MONTH NOV  
CLASS ALL WEATHER 1800-2000  
CONDITION HOURS (L.E.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.4	2.5	2.0	.3	.3	.1						6.6	6.6
NNE	.7	.4	.7	.1								2.2	6.1
NE	.1	.1	.6	.7								1.5	9.5
ENE			.1	.1	.6							.8	16.5
E	.1	.3	.4		.1							1.2	7.6
ESE			.1									.1	8.0
SE	.3	.4	.3									1.0	5.1
SSE	.8	.7	.6	.3								2.4	5.5
S	2.1	3.4	2.2	1.0	.8	.1						9.7	7.7
SSW	2.0	3.4	3.4	3.6	.4	.3						13.3	8.9
SW	1.1	2.0	5.3	5.2	.8							15.4	9.4
WSW	1.4	1.4	1.1	2.8	.4							7.2	9.0
W	1.5	4.6	2.8	4.1	.8							13.9	8.5
WNW	.4	2.1	2.2	2.2	.1	.3						7.4	9.1
NW	1.1	1.9	1.4	.7								5.1	6.0
NNW	.3	1.0	1.8	1.3	.6	.1						5.1	10.4
VARBL				.4	.4							.8	16.5
CALM												6.6	
	13.5	25.1	25.1	23.2	5.5	1.0						100.0	8.0

TOTAL NUMBER OF OBSERVATIONS 712

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AFR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 35621 ALCONBURY RAF UK STATION NAME 77-82 YEARS NOV  
CLASS ALL WEATHER 1000-2300  
HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.5	3.2	2.2	1.2	.1							8.2	6.8
NNE		.4	.7	.1								1.3	7.9
NE		.4	.6	.9								1.9	9.8
ENE	.1	.3	.1	.3	.1							1.7	9.7
E	.7	.3	.3	.1								1.5	4.8
ESE	.3											.3	2.5
SE	.4		.3									.7	5.2
SSE		.4	.7									1.2	6.6
S	1.8	2.0	2.6	1.5	.4	.1	.1					9.5	7.9
SSW	1.2	3.5	2.8	3.5	.4							11.5	8.6
SW	1.3	4.8	5.7	5.8	1.5	.1						18.5	9.4
WSW	1.3	2.7	3.1	3.6	.1							10.4	8.6
W	1.2	3.5	4.5	1.0	.6	.4						12.1	8.7
WNW	.4	1.5	2.3	1.2	.1		.1					6.0	8.5
NW	1.2	.7	1.7	.9								3.9	6.8
NNW	.9	.6	1.5	1.8	.4							5.1	9.5
VARBL			.3	.1	.1		.1					.7	15.6
CALM												6.1	
	12.3	25.3	28.0	23.1	4.1	.7	.4					100.0	7.9

TOTAL NUMBER OF OBSERVATIONS 685

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

05621 ALCONBURY RAF UK 77-82 NOV  
STATION STATION NAME YEAR MONTH  
ALL WEATHER  
CLASS  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	2.4	2.1	1.2	.2	.1						7.2	7.4
NNE	.5	.4	.6	.2								1.6	6.5
NE	.2	.3	.6	.7								1.7	8.7
ENE	.2	.2	.4	.3	.3	.1						1.3	11.3
E	.4	.4	.2	.2	.1	.1						1.3	6.8
ESE	.2	.4	.2	.1	.2							.8	5.9
SE	.3	.6	.4	.1								1.3	5.9
SSE	.5	.7	.9	.3	.7							2.5	6.7
S	1.5	2.6	2.6	1.9	.6	.1	.1					9.4	8.3
SSW	1.5	3.5	3.5	3.4	.8	.3						13.0	9.0
SW	1.0	3.0	5.1	5.7	1.0	.7						15.9	10.0
WSW	.9	2.1	3.3	3.1	.4							9.6	9.0
W	1.1	2.8	4.1	3.0	.8	.2	.1					12.2	9.3
WNW	.5	1.3	1.8	2.1	.5	.3	.1					6.6	10.6
NW	.5	.8	1.3	1.3	.3	.						4.1	9.3
NNW	.4	.7	1.8	1.7	.4	.2	.0					5.4	10.2
VARBL			.2	.4	.1	.1	.0					.8	14.8
CALM												5.1	
	17.8	22.4	29.0	25.5	5.5	1.5	.1					100.0	8.6

TOTAL NUMBER OF OBSERVATIONS 5815



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/PAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 35621 STATION NAME ALCONBURY RAF UK YEARS 75-78, 81-82 DATE DEC  
CLASS ALL WEATHER 000-0200  
MOON (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		2.1	1.8	.6	.6	.4						5.5	9.9
NNE	.6	.8	1.0									2.5	5.7
NE	.4	1.7	.8	.6								2.9	6.4
ENE	.2	.4	.4									1.0	5.6
E	.2	1.4	.8									2.5	5.1
ESE	.2	1.5	.6	.6								3.1	6.0
SE	.6	.8	.6	.6	.2	.7						3.1	8.0
SSE	.2	1.2	2.1	1.0								4.5	8.5
S	.2	1.4	1.8	2.3								5.7	9.4
SSW	1.6	2.7	.8	3.1		.7						8.4	8.3
SW	.8	3.1	4.7	5.5	1.2							15.4	10.3
WSW	1.4	4.7	3.7	2.7	.2	.7						17.1	7.7
W	2.5	5.7	4.5	3.9	1.0	.7						17.5	8.5
WNW	.4	1.4	1.2	.6		.2						4.3	7.9
NW		.4	.4	.8	.4							2.1	11.7
NNW	.4	.6	1.2	1.0								3.3	8.9
VARBL												5.1	
CALM													
	9.9	29.8	26.7	23.4	3.7	1.4						100.0	8.1

TOTAL NUMBER OF OBSERVATIONS 987

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

35621  
STATION

ALCONBURY RAF UK  
STATION NAME

72-82  
YEARS

DLC  
MONTHS

ALL WEATHER  
CLASS

0300-0500  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	2.4	2.8	1.1	.1							7.5	7.3
NNE	.4	.4	.5	.1								1.5	6.5
NE	.1	.0	.9									1.9	6.3
ENE	.8	.3	.5	.1								1.7	5.4
E	.7	.9	.7									2.3	4.8
ESE	.1	1.1	1.3	.3								3.2	6.4
SE	.3	.9	.9	.9								2.9	8.4
SSE	.5	.5	1.5	.8	.3							3.6	8.8
S	.5	1.6	2.4	1.3	.3							6.2	8.6
SSW	1.2	2.7	3.1	2.7	.4	.1						10.5	8.5
SW	1.2	3.4	4.6	6.2	1.6	.3	.1					17.3	10.4
WSW	1.5	3.6	3.4	2.1	.7	.4						11.3	8.0
W	.8	3.5	4.2	2.8	.5	.7						12.1	8.9
WNW	.4	.7	1.1	1.7	.8	.1						5.1	11.3
NW	.1	.4	.7	1.1	.7							2.5	10.2
NNW	.3	.0	.8	1.3	.5							3.8	10.5
VARBL				.1								.1	16.0
CALM												6.6	
	10.1	24.0	29.4	22.8	5.1	1.2	.1					100.0	8.2

TOTAL NUMBER OF OBSERVATIONS 746

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AFD WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 75621 ALCONBURY RAF UK STATION NAME 7-82 YEARS DEC  
CLASS ALL WEATHER HOURS (L.S.T.) 0600-0800  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	2.2	2.1	1.1	.4	.1						7.6	7.6
NNE	.6	.8	1.3	.1								2.9	6.7
NE	.4	.4	.5	.1								1.3	6.2
ENE	.4	.7	.2									1.3	4.5
E	.2	1.1	1.0									2.2	5.8
ESE	.5	1.1	.7	.1								2.4	6.0
SE	.6	1.0	1.1	1.6								4.2	8.5
SSE	.2	.7	1.2	.7	.1							3.0	8.5
S	.7	1.6	2.1	1.3	.1	.1						6.1	8.6
SSW	1.3	3.2	3.4	1.3	.8	.2						11.0	8.0
SW	1.9	3.2	5.5	5.7	1.2	.1						16.7	9.4
WSW	1.1	3.2	4.0	2.7	.5	.5	.1					12.0	9.3
W	.7	3.8	4.4	3.4	.5							12.7	8.6
WNW	.5	.6	1.0	1.0	.8	.2						4.1	11.6
NW	.1	.1	.6	1.5		.1						2.8	10.3
NNW	.5	.1	.8	1.9	.1							4.1	10.0
VARBL			.2									.2	13.5
CALM												5.0	
	17.8	26.0	29.9	22.1	4.6	1.5	.1					100.0	8.2

TOTAL NUMBER OF OBSERVATIONS 824

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AID WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

35621 ALCONBURY RAF UK 73-82 DEC  
STATION STATION NAME YEARS MONTHS  
ALL WEATHER CLASS 1970-1100  
CONDITION HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	2.6	1.6	1.9	.2							7.3	8.0
NNE	.7	1.5	.2	.1								2.6	4.9
NE	.5	.3	.2	.1								1.3	5.6
ENE	.1	.1	.5	.3								1.7	8.6
E	.5	.8	1.7	.7								3.0	7.4
ESE	.2	.7	.3	.1								1.6	6.1
SE		1.4	.9	1.7	.2							4.3	10.1
SSE	.2	.8	1.0	.8	.1							3.0	8.8
S	.5	2.6	1.6	2.2	.1	.3						7.3	9.1
SSW	.6	2.7	2.9	1.6	.9	.1						8.9	9.1
SW	1.0	2.3	5.2	5.1	1.6	.1						15.4	10.2
WSW	1.0	3.7	4.8	4.2	.9	.5						14.5	9.8
W	.8	2.6	4.3	3.8	.8	.3						12.7	9.9
WNW	.3	.7	1.4	1.9	.2	.1						4.7	10.1
NW	.7	.6	.6	1.9	.2	.7						4.2	10.6
NNW	.7	.3	.5	1.6	.2							3.4	9.9
VARBL					.2							.2	20.0
CALM												4.5	
	9.1	23.3	27.3	28.2	5.8	1.7						100.0	8.9

TOTAL NUMBER OF OBSERVATIONS 658

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 35621 ALCONBURY RAF UK STATION NAME YEARS 73-82 DATE DEC 1982  
ALL WEATHER CLASS 1200-1800 HOURS (LST)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	2.4	2.6	2.5	.1							3.4	8.5
NNE	.3	.6	.1									1.1	4.6
NE	.3	.8	.2	.2	.1							1.7	6.9
ENE	.4	.2	.7	.8	.1							2.2	9.0
E	.4	.6	.9	.6								2.4	7.6
ESE	.1	.6	.2	.4								1.3	8.5
SE	.1	1.7	.7	1.7	.1							3.5	10.2
SSE	.1	.4	1.9	1.5	.1							4.1	9.7
S	.6	1.1	1.5	1.7	.4	.7						5.9	11.4
SSW	.6	2.2	1.7	3.4	.7		.1					8.6	10.0
SW	.6	1.3	5.3	3.6	2.4	.4						13.7	11.5
WSW	.6	1.5	4.0	4.4	1.1	.7						11.8	10.6
W	1.1	2.4	4.8	5.4	1.7	1.7	.4					16.9	11.6
WNW	.3	.9	1.3	3.3	.3	.2						6.4	11.7
NW	.3	.6	1.1	1.4	.4	.2						4.1	11.1
NNW	.4	.9	1.3	1.8	.4	.2						5.1	10.8
VARBL				.1		.1						.2	16.5
CALM												2.9	
	6.9	17.4	48.3	32.8	8.0	3.1	.6					100.0	10.2

TOTAL NUMBER OF OBSERVATIONS 978

GLOBAL CLIMATELOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE ZAL

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION: ALCONRUP REF UP  
STATION NAME

11-82  
YEARS

DEC  
MONTHS

ALL WEATHER  
CLASS

1500-1700  
HOURS (LST)

1000/1000

SPEED ENTS. DIR	1 3	4 6	7 10	11 16	17 21	22 27	28 33	34 40	41 47	48 55	≥ 56	%	MEAN WIND SPEED
N	1.2	2.2	7.1	1.7								1.2	1.7
NNE		.4	.2	.4								1.2	7.6
NE	.1	.4	.8	.7								1.2	7.6
ENE	.1	.4	.4	.7								1.2	7.3
E	.4	.0	1.1	.0								1.3	7.8
ESE	.1	.5	.6	.6								1.4	9.7
SE	.4		1.4	.0	.7							1.7	8.9
SSE	.7	1.7	1.4	1.7	.1							4.7	9.3
S	.4	1.1	1.0	1.7	.6	.4						5.9	10.7
SSW	1.4	2.3	2.4	2.6	.4							5.8	8.6
SW	.8	3.3	5.5	4.7	1.1	.7						14.6	10.0
WSW	1.7	2.6	3.4	3.6	.7	.1	.1					11.1	8.5
W	.6	7.2	5.1	4.3	.4	.7						14.4	10.1
WNW	.7	.5	.2	2.7	.7							5.8	10.6
NW	.6	.3	1.1	1.2								3.7	8.5
NNW		1.0	.7	7.1	.4							3.7	11.2
VARBL			.7			.1						.2	16.5
CALM												5.5	
	8.6	21.6	30.7	27.2	4.2	2.1	.1					100.0	8.8

TOTAL NUMBER OF OBSERVATIONS 978

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

175621 ALCONBURY RAF UK

73-82

06C

ALL WEATHER  
CLASS

1300-2000  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	1.3	1.3	.7	.3							4.1	8.2
NNE	.4	.9	1.1	.4								2.8	7.7
NE	.1	.1	.8	.3								1.3	8.7
ENE	.4	.7	.3	.4								1.7	6.8
E		1.2	1.3	.3								2.8	7.5
ESE	.1	.9	1.1	.1								2.2	6.9
SE	.3	1.4	2.7	.9	.3							4.9	8.3
SSE	.5	1.2	1.8	1.3	.1							5.2	8.4
S	.9	1.3	2.8	2.1	.4	.3						7.8	9.5
SSW	1.2	2.4	2.6	3.7	.9	.3						10.4	9.6
SW	.8	2.8	4.1	4.9	.3							12.8	9.6
WSW	1.1	2.4	3.3	1.6	.1	.4	.3					9.1	9.1
W	.5	4.5	5.3	3.3	.7	.4						14.6	9.2
WNW	.4	1.1	1.7	1.6	.3	.1						5.1	9.9
NW	.5	.5	.9	1.2	.1							3.3	9.4
NNW	.4	.9	1.1	1.4	.7							4.5	10.1
VARBL							.1					.1	30.0
CALM												7.6	
	8.2	23.6	31.3	23.4	4.1	1.4	.4					100.3	8.4

TOTAL NUMBER OF OBSERVATIONS

760

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

75621  
STATION

ALCONBURY RAF UK  
STATION NAME

73-82  
YEARS

DEC  
MONTH

ALL WEATHER  
CLASS

2100-2300  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 53	≥ 56	%	MEAN WIND SPEED
N	.7	1.5	1.1		.5							3.8	7.4
NNE	.7	1.6	.5	.7								3.5	6.3
NE	.1	.9	1.1	.1								2.3	7.2
ENE		.7	.5	.1								1.4	7.5
E	.1	1.4	.3	.1								1.9	5.6
ESE	.5	1.5	.9	.4	.1							3.5	6.9
SE	.4	1.4	1.1	1.4								4.2	8.2
SSE	.4	.5	1.8	1.5								4.2	9.0
S	.8	.9	1.9	2.8	.4							6.9	9.6
SSW	1.4	1.8	2.3	2.8	.5	.4						9.2	9.7
SW	1.1	2.4	3.3	5.4	.9	.1						13.3	10.2
WSW	.7	2.7	4.5	2.4	.1	.1						10.6	8.7
W	1.1	3.9	4.7	2.3		.7	.3					13.0	9.1
WNW	.3	1.1	2.4	1.6	.5	.1	.1					6.2	10.7
NW	.1	.5	1.2	1.4		.1						3.4	10.4
NNW	.4	.3	1.5	1.6	.4							4.2	10.5
VARBL			.1									.1	10.0
CALM												8.3	
	9.8	23.2	29.3	24.8	3.7	1.6	.4					100.0	8.3

TOTAL NUMBER OF OBSERVATIONS

738



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIP WEATHER SERVICE/PAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

75621  
STATION

ALCONBURY RAF UK  
STATION NAME

72-82  
YEARS

DEC  
MONTH

ALL WEATHER  
CLASS

ALL  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	2.2	2.1	1.3	.3	.1						6.7	7.9
NNE	.5	.9	.6	.2								2.2	6.2
NE	.3	.6	.6	.2	.7							1.7	6.8
ENE	.3	.5	.4	.3	.7							1.5	7.1
E	.3	1.7	.9	.4								2.6	6.8
ESE	.2	1.7	.7	.3	.7							2.3	6.9
SE	.3	1.1	1.1	1.3	.1	.7						3.9	9.0
SSE	.3	.8	1.6	1.2	.1							4.7	8.9
S	.6	1.5	2.0	1.9	.3	.3						6.5	9.6
SSW	1.1	2.6	2.5	2.5	.6	.2	.7					9.5	9.2
SW	1.0	2.6	4.8	4.9	1.3	.2	.7					14.9	10.2
WSW	1.1	2.9	3.9	7.0	.5	.3	.1					11.7	9.1
W	.9	3.5	4.7	3.7	.7	.5	.1					14.1	9.7
WNW	.4	.9	1.5	1.8	.5	.1	.7					5.3	10.7
NW	.3	.5	.9	1.7	.2	.1						3.4	10.2
NNW	.4	.7	.9	1.7	.4	.7						4.2	10.4
VARBL			.7	.1	.7	.7	.7					.2	17.2
CALM												5.6	
	0.0	23.2	29.2	25.9	5.0	1.8	.2					100.0	8.7

TOTAL NUMBER OF OBSERVATIONS 6229

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

35621 ALCONBURY RAF UK 77-83  
STATION STATION NAME YEARS  
ALL WEATHER ALL MONTHS  
CLAS HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.2	2.4	3.7	2.0	.3	.1	.0	.0				9.1	8.1
NNE	.6	1.4	2.1	1.7	.2	.1						6.1	8.8
NE	.5	1.1	1.3	.9	.1	.1						3.8	8.1
ENE	.3	.8	.9	.5	.1	.2						2.6	7.7
E	.7	1.1	1.1	.5	.0	.1						3.3	6.7
ESE	.4	.7	.7	.4	.1	.1						2.2	7.2
SE	.4	.5	.8	.6	.1	.1						2.7	7.9
SSE	.5	1.1	1.1	.7	.1	.1	.7					3.4	7.7
S	1.3	2.1	2.4	1.5	.3	.1	.0					7.7	7.9
SSW	1.4	2.6	2.4	1.9	.4	.1	.1					8.8	8.0
SW	1.1	2.4	3.4	2.0	.4	.1	.0					17.3	9.0
WSW	.9	2.2	2.8	2.1	.3	.1	.0	.0				8.5	8.6
W	1.7	2.4	3.5	2.7	.5	.1	.1	.0	.7			10.3	9.1
WNW	.5	1.3	1.7	1.5	.4	.1	.2	.0	.7			5.5	9.6
NW	.5	1.0	1.2	1.0	.2	.1	.1					3.9	8.9
NNW	.5	1.0	1.4	1.1	.3	.1	.0					4.2	9.0
VARBL	.0	.7	1.1	.7	.1	.1	.0					2.0	10.6
CALM												5.9	
	11.6	24.2	31.0	22.6	3.7	.9	.1	.0	.1			100.0	8.0

TOTAL NUMBER OF OBSERVATIONS 73618

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 5621 ALCONBURY RAF UK STATION NAME 73-83 YEARS ALL  
INSTRUMENT ALL  
CLASS ALL  
CONDITION HOUS (L.S.T.)  
CIG 200 TO 1400 FT W/ VSBY 1/2 MI OR MORE.  
AND/OR VSBY 1/2 TO 2-1/2 MI W/CIG 200 FT OR MORE

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.6	3.2	4.9	4.7	.6	.1	.0	.0				14.4	8.8
NNE	.8	1.9	3.2	3.5	.5	.1						9.9	9.5
NE	.5	1.4	2.1	1.2	.1	.0						5.4	8.2
ENE	.4	1.1	1.5	.6	.1							3.8	7.5
E	.9	1.6	2.1	.8	.0							5.5	7.0
ESE	.5	1.1	1.1	.4	.1	.1						3.2	7.1
SE	.4	1.3	1.2	.9	.1	.1						3.9	8.1
SSE	.7	1.4	1.6	.9	.1	.1	.0					4.7	7.5
S	1.5	2.3	2.5	1.7	.3	.1						8.4	8.0
SSW	1.5	2.7	2.4	1.8	.3	.1	.0					8.7	7.8
SW	.9	1.8	2.2	2.0	.2	.1						7.2	8.6
WSW	.9	1.4	1.0	.6	.1	.1	.0					4.0	6.9
W	.9	1.5	1.0	.4	.1	.1						3.9	6.4
WNW	.4	.6	.7	.5	.1	.1	.0					2.2	7.8
NW	.4	.6	.7	.5	.1	.1	.0					2.3	8.0
NNW	.5	.9	1.2	1.2	.3	.1						4.1	9.3
VARBL	.0	.1	.2	.2	.0	.0						.6	11.5
CALM												7.8	
	12.9	24.3	29.5	21.2	3.0	.6	.1	.0				100.0	7.5

TOTAL NUMBER OF OBSERVATIONS 12704

U S AIR FORCE  
ENVIRONMENTAL TECHNICAL  
APPLICATIONS CENTER

## PART D CEILING VERSUS VISIBILITY

This summary is a bivariate percentage frequency distribution by classes of ceiling from zero to equal to or greater than 20,000 feet and as a separate class "no ceiling", versus visibility in 16 classes from zero to equal to or greater than 10 miles. Data are derived from hourly observations, and three sets of tables are presented as follows:

1. Annual - all years and all hours combined
2. By month - all years and all hours combined
3. By month - by standard 3-hour groups

Due to the cumulative nature of this presentation, it is possible to determine the percentage frequency of occurrence for any given limit of ceiling or visibility separately, or in combination of ceiling and visibility. The totals progress to the right and downward. Ceiling may be determined independently by referring to totals in the extreme right hand column. Also, visibility may be determined independently by reference to the horizontal row of totals at the bottom of the page. The percentage frequency for which the station was meeting or exceeding any given set of minima may be determined from the figure at the intersection of the appropriate ceiling column and visibility row. Several examples in the use of these tables are shown on pages 2 and 3 below.

U. S. Weather Bureau and Navy stations did not report ceilings within the range 10,000 feet and higher prior to January 1949. Summaries prepared from data for these stations using the earlier period and data subsequent to January 1949 will be modified to limit ceilings to 10,000 feet. Short periods of record prior to 1949 for these stations will be eliminated from the summary. For Air Force stations, the "no ceiling" category includes clear and scattered conditions, and ceilings above 20,000 feet for period through June 1948. Beginning in July 1948 for Air Force stations and January 1949 for USWB and U. S. Navy stations the "no ceiling" category consists of observations with less than 6/10 total sky cover and those cases where total sky cover is 6/10 or more, but not more than 1/2 of the sky cover is opaque.

Beginning in January 1968, METAR stations report visibilities to 6 miles and then greater than 6 miles. Thus, for METAR stations, the category equal to or greater than 10 miles is not printed in the tables, unless the summary was for a period ending before January 1968. For most Airways stations, visibilities of greater than 7 miles were not reported for part of the period of record. Therefore, the  $\geq 10$  mi visibility category should be used with great caution.

(continued on Reverse Side)

EXAMPLE FOR USE OF CEILING VERSUS VISIBILITY TABLES IN THIS TABULATION

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	$\geq 10$	$\geq 6$	$\geq 5$	$\geq 4$	$\geq 3$	$\geq 2\frac{1}{2}$	$\geq 2$	$\geq 1\frac{1}{2}$	$\geq 1\frac{1}{4}$	$\geq 1$	$\geq \frac{3}{4}$	$\geq \frac{1}{2}$	$\geq \frac{1}{4}$	$\geq \frac{1}{8}$	$\geq \frac{1}{16}$	$\geq 0$
NO CEILING																
1800																
1500					91.0											92.6
1200																
1000																
900																
800																
700																
600																
500									97.4							98.1
400																
300																
200																
100																
0					95.4		96.9			98.3						100.0

EXAMPLE # 1 Read ceiling values independently of visibility under column at right headed  $\geq 0$ .  
For instance, from the table: Ceiling  $\geq 1500$  feet = 92.6%.  
Ceiling  $\geq 500$  feet = 98.1%.

EXAMPLE # 2 Read visibilities independently of ceilings on bottom line opposite  $\geq 0$ . From the table:  
Visibility  $\geq 3$  miles = 95.4%.  
Visibility  $\geq 2$  miles = 96.9%.  
Visibility  $\geq 1$  mile = 98.3%.

EXAMPLE # 3 To obtain combinations of ceiling with visibility, read figure at intersection of the two categories; i.e.: Ceiling  $\geq 1500$  feet with visibility  $\geq 3$  miles = 91.0%.

#### ADDITIONAL EXAMPLES

EXAMPLE # 4 Values below minimums stated in the table may be obtained by subtracting the value given in the table from 100%.  
Thus, to obtain the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles, subtract the value read from the table at the intersection, which is 91.0, from 100.0. The answer 9.0 is the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles.

Likewise, the percentage of observations with ceiling < 500 feet and/or visibility < 1 mile is 2.6, obtained by subtracting 97.4 from 100.0.

EXAMPLE # 5 To find the percentage of observations falling within the two categories given in example above, subtract the value read from the table for the first set of limits from the value in the table for the second set of limits. The difference will be the percentage of observations meeting the lower set of limits, but not meeting the higher set of limits.

The value 91.0 read from the table at the intersection of  $\geq 1500$  feet with  $\geq 3$  miles, subtracted from 97.4 read from the table at the intersection of  $\geq 500$  feet with  $\geq 1$  mile is equal to 6.4%. Thus; 6.4 percent of the observations meet the criteria: "ceiling  $\geq 500$  feet with visibility  $> 1$  mile, but  $< 3$  miles; or ceiling  $\geq 500$  feet, but  $< 1500$  feet with visibility  $\geq 1$  mile."

Since these tabulations are prepared in several ways including by month, by 3-hour groups it is possible to determine diurnal variations of ceiling and visibility limits as well as probabilities of various ceiling-visibility combinations.

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AF WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

05621  
STATION

ALCONBURY RAF UK  
STATION NAME

74-77,79,82-93  
YEARS

JAN  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

000-0200  
HOURS

CEILING FEET	VISIBILITY STATUTE MILES																OR (HUNDREDS OF METERS)													
	>10	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	210	200	190	180	170	160	150	140	130	120	110	100	90	80
>1000	25.5	26.7	28.1	29.1	29.3	31.3	31.8	31.7	31.3	31.5	31.7	31.7	32.5	32.5	33.9															
9000	29.1	30.5	32.2	33.2	33.4	34.4	34.9	35.1	35.3	35.6	35.8	35.8	36.5	36.5	38.0															
8000	29.6	31.1	32.7	33.7	33.9	34.9	35.3	35.6	35.8	36.1	36.3	36.3	37.0	37.0	38.5															
7000	29.6	31.1	32.7	33.7	33.9	34.9	35.3	35.6	35.8	36.1	36.3	36.3	37.0	37.0	38.5															
6000	29.6	31.3	32.9	33.9	34.1	35.1	35.6	35.8	36.1	36.3	36.5	36.5	37.3	37.3	38.7															
5000	31.1	32.7	34.4	35.3	35.6	36.5	37.3	37.5	37.7	38.0	38.2	38.5	39.2	39.2	40.4															
4500	31.3	32.9	34.6	35.6	35.8	36.8	37.5	37.7	38.0	38.2	38.5	38.5	39.2	39.2	40.6															
4000	32.9	34.6	36.6	37.7	38.0	38.9	39.7	39.9	40.4	40.6	40.9	41.1	41.6	41.6	43.0															
3500	33.4	35.1	37.3	38.2	38.5	39.4	40.1	40.4	40.9	41.1	41.3	41.3	42.1	42.1	43.5															
3000	33.4	35.1	37.3	38.2	38.5	39.7	40.4	40.6	41.1	41.3	41.6	41.6	42.3	42.3	43.8															
2500	35.8	37.5	39.7	40.9	41.1	42.3	43.0	43.3	43.8	44.0	44.2	44.2	45.0	45.0	46.4															
2000	37.3	38.9	41.1	42.3	42.5	43.8	44.5	44.7	45.2	45.4	45.7	45.7	46.4	46.4	47.8															
1500	38.9	40.6	43.5	44.7	45.0	46.2	46.9	47.1	47.6	47.8	48.1	48.1	48.8	48.8	50.2															
1000	42.3	44.0	47.1	48.3	48.6	50.0	51.0	51.7	52.2	52.4	52.6	52.6	53.4	53.4	54.8															
900	45.4	47.1	50.5	52.2	52.4	54.1	55.0	55.8	56.3	56.5	56.7	56.7	57.5	57.5	58.9															
800	48.3	50.5	55.3	57.2	57.7	59.6	60.6	61.3	61.8	62.0	62.3	62.3	63.0	63.0	64.4															
700	55.0	57.2	62.5	64.9	65.4	67.5	69.0	69.7	70.2	70.4	70.7	70.7	71.4	71.4	72.8															
600	57.7	59.9	65.1	67.5	68.0	70.2	71.9	72.6	73.1	73.3	73.6	73.6	74.3	74.3	75.7															
500	63.5	65.6	70.9	73.6	74.5	77.2	79.1	79.8	80.3	80.5	81.0	81.0	81.7	81.7	83.2															
400	67.3	69.5	75.5	79.1	80.3	83.4	85.3	86.1	86.5	86.8	87.3	87.3	88.0	88.0	89.4															
300	70.0	72.1	78.6	82.2	83.4	86.8	88.9	89.7	90.4	90.6	91.1	91.1	91.8	91.8	93.3															
200	70.0	72.1	78.6	82.2	83.4	86.8	88.9	89.7	90.4	90.6	91.1	91.1	91.8	91.8	93.3															
100	70.7	72.8	79.6	84.4	85.6	88.9	91.3	92.5	93.5	93.8	94.2	94.2	95.0	95.0	96.4															
50	70.7	72.8	79.6	84.4	85.6	88.9	91.3	92.5	93.5	93.8	94.2	94.2	95.0	95.0	96.4															
0	70.7	72.8	79.6	84.4	86.1	91.1	93.5	95.2	96.4	96.6	97.1	97.1	97.8	97.8	99.3															
0	70.7	72.8	79.6	84.4	86.1	91.1	93.5	95.2	96.4	96.6	97.1	97.1	97.8	97.8	100.0															

TOTAL NUMBER OF OBSERVATIONS 416

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

75621

ALCONBURY RAF UK

74-83

1941

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0300-0500

FEET	VISIBILITY: STATUTE MILES															
	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95
>16	24.9	25.2	26.9	27.5	27.5	28.4	28.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7
16-15	25.6	26.0	27.3	27.9	27.9	28.9	29.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2
15-14	25.7	26.1	27.4	28.0	28.0	29.0	29.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3
14-13	25.7	26.1	27.4	28.0	28.0	29.0	29.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3
13-12	25.7	26.1	27.4	28.0	28.0	29.0	29.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3
12-11	25.7	26.1	27.4	28.0	28.0	29.0	29.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3
11-10	25.7	26.1	27.4	28.0	28.0	29.0	29.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3
10-9	25.7	26.1	27.4	28.0	28.0	29.0	29.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3
9-8	25.7	26.1	27.4	28.0	28.0	29.0	29.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3
8-7	25.7	26.1	27.4	28.0	28.0	29.0	29.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3
7-6	25.7	26.1	27.4	28.0	28.0	29.0	29.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3
6-5	25.7	26.1	27.4	28.0	28.0	29.0	29.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3
5-4	25.7	26.1	27.4	28.0	28.0	29.0	29.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3
4-3	25.7	26.1	27.4	28.0	28.0	29.0	29.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3
3-2	25.7	26.1	27.4	28.0	28.0	29.0	29.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3
2-1	25.7	26.1	27.4	28.0	28.0	29.0	29.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3
1-0	25.7	26.1	27.4	28.0	28.0	29.0	29.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3
0-0	25.7	26.1	27.4	28.0	28.0	29.0	29.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3

TOTAL NUMBER OF OBSERVATIONS 739

USAF ETAC FORM 101-64 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

175521

ALCONBURY RAF UK

74-87

JAN

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1600-1800  
HOURS

CEILING FEET	VISIBILITY: STATUTE MILES OR (HUNDREDS OF METERS)															
	≥10 >160	≥8 GE90	≥6 GF80	≥4 GE60	≥3 GF48	≥2.5 GE40	≥2 GE32	≥1.5 GE24	≥1 GF20	≥0.75 GE16	≥0.5 GF12	≥0.25 GF10	≥0.15 GF8	≥0.1 GF5	≥0.05 GF4	≥0.01 GF0
≥20000		72.7	21.4	25.0	25.9	26.0	26.5	27.6	27.9	28.6	28.7	28.7	28.7	29.1	29.3	29.8
≥18000		25.9	26.9	28.6	29.4	29.6	30.1	31.2	31.4	32.1	32.3	32.3	32.3	32.8	33.0	33.5
≥16000		26.0	27.0	28.7	29.6	29.7	30.2	31.3	31.5	32.3	32.4	32.4	32.4	32.9	33.1	33.6
≥14000		26.0	27.0	28.7	29.6	29.7	30.2	31.3	31.5	32.3	32.4	32.4	32.4	32.9	33.1	33.6
≥12000		26.1	27.1	28.8	29.7	29.8	30.3	31.4	31.7	32.4	32.5	32.5	32.5	33.0	33.3	33.7
≥10000		27.9	28.8	30.7	31.5	31.7	32.1	33.4	33.6	34.4	34.5	34.5	34.5	35.0	35.2	35.7
≥8000		29.6	30.6	32.4	33.3	33.4	33.9	35.1	35.3	36.1	36.2	36.2	36.2	36.7	36.9	37.4
≥6000		31.7	32.8	35.0	35.8	36.0	36.6	37.8	38.0	38.8	38.9	38.9	38.9	39.4	39.6	40.1
≥4000		32.4	33.5	35.7	36.6	36.7	37.3	38.5	38.8	39.5	39.6	39.6	39.6	40.1	40.4	40.9
≥2000		32.8	33.9	36.1	36.9	37.1	37.8	39.0	39.3	40.1	40.2	40.2	40.2	40.7	41.0	41.5
≥1000		34.4	35.6	38.4	39.5	39.6	40.7	42.0	42.2	43.2	43.3	43.3	43.3	43.8	44.0	44.5
≥500		36.2	37.4	40.2	41.5	41.6	43.1	44.3	44.5	45.5	45.6	45.6	45.6	46.1	46.4	46.9
≥200		38.8	40.0	43.3	45.0	45.2	46.7	48.3	48.6	49.7	49.8	49.8	49.8	50.3	50.7	51.2
≥100		41.7	43.1	46.5	48.6	48.7	50.4	52.0	52.3	53.4	53.5	53.5	53.5	54.0	54.4	54.8
≥50		46.0	47.4	51.3	53.4	53.5	55.6	57.5	57.9	59.3	59.4	59.4	59.4	59.9	60.4	60.9
≥25		49.6	51.4	55.7	58.0	58.2	60.2	62.5	62.8	64.2	64.3	64.3	64.3	64.8	65.3	65.9
≥10		55.3	57.5	61.8	64.3	64.4	66.6	69.1	69.4	70.8	70.9	70.9	70.9	71.4	71.9	72.5
≥5		56.4	58.7	62.9	65.4	65.5	67.7	70.3	70.7	72.0	72.1	72.1	72.1	72.6	73.1	73.7
≥2		60.0	62.9	67.5	70.2	70.3	72.6	75.3	75.8	77.2	77.3	77.3	77.3	77.8	78.3	78.9
≥1		62.7	66.1	71.0	73.9	74.0	76.4	79.1	79.8	81.1	81.2	81.2	81.2	81.7	82.2	82.8
≥0.5		63.6	67.1	72.5	75.3	75.5	78.2	81.0	81.6	82.9	83.1	83.1	83.1	83.6	84.2	84.9
≥0.25		64.2	68.0	73.5	76.4	76.7	79.5	82.3	82.9	84.3	84.4	84.4	84.4	84.9	85.5	86.3
≥0.15		64.8	68.8	74.7	77.8	78.0	81.0	83.8	84.5	85.9	86.0	86.0	86.0	86.5	87.1	87.9
≥0.1		65.0	69.2	75.1	78.4	78.7	81.8	84.9	85.8	87.2	87.4	87.4	87.4	87.9	88.5	89.2
≥0.05		65.4	69.7	75.6	79.1	79.5	82.8	86.0	87.1	88.6	88.7	88.7	88.7	89.2	89.8	90.6
≥0.01		65.5	69.8	76.0	79.5	80.0	83.6	87.4	88.5	90.1	90.2	90.3	90.3	90.8	91.5	92.3
≥0.005		65.8	70.1	76.2	79.9	80.6	84.9	89.2	90.9	93.4	93.9	94.2	94.4	95.0	96.0	96.9
≥0.001		65.8	70.1	76.2	79.9	80.6	84.9	89.2	90.9	93.4	93.9	94.4	94.5	95.2	96.3	97.5
≥0.0001		65.8	70.1	76.2	79.9	80.6	84.9	89.3	91.0	93.5	94.0	94.6	94.7	96.1	98.2	100.0
≥0.00001		65.8	70.1	76.2	79.9	80.6	84.9	89.3	91.0	93.5	94.0	94.6	94.7	96.1	98.2	100.0

TOTAL NUMBER OF OBSERVATIONS 815

USAF ETAC FORM 10-64 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AID WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

75521  
STATION

ALCONBURY RAF UK  
STATION NAME

74-83  
YEARS

1955  
MONTHS

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0000-1100  
TIME

CEILING FEET	VISIBILITY: STATUTE MILES OR (HUNDREDS OF METERS)															
	≥10 >16	20 GF9	25 GF8	30 GF6	35 GF4	40 GF3	45 GF2	50 GF1	60 GF0	70 GF0	80 GF0	90 GF0	100 GF0	120 GF0	150 GF0	200 GF0
NO CEILING		21.1	21.1	22.5	23.5	23.8	24.5	24.9	25.7	25.5	25.5	25.5	25.5	25.5	25.5	26.1
≥ 20000		27.1	27.6	29.6	31.1	31.3	32.1	32.6	32.9	33.5	33.5	33.5	33.6	33.6	33.6	34.2
≥ 18000		27.1	27.7	29.9	31.1	31.4	32.2	32.9	33.1	33.6	33.6	33.6	33.8	33.8	33.8	34.3
≥ 16000		27.2	27.7	29.9	31.1	31.4	32.2	32.9	33.1	33.6	33.6	33.6	33.8	33.8	33.8	34.3
≥ 14000		27.3	27.8	30.0	31.2	31.5	32.4	33.1	33.2	33.8	33.8	33.8	33.9	33.9	33.9	34.5
≥ 12000		27.5	27.9	30.1	31.4	31.8	32.6	33.3	33.4	34.1	34.1	34.1	34.1	34.1	34.1	34.7
≥ 10000		29.4	29.9	32.4	33.6	34.0	34.9	35.6	35.7	36.3	36.3	36.3	36.4	36.4	36.4	37.1
≥ 9000		30.6	31.4	34.1	35.3	35.6	36.6	37.3	37.4	38.1	38.1	38.1	38.1	38.1	38.1	38.7
≥ 8000		34.1	34.8	38.1	39.5	39.8	40.8	41.5	41.6	42.2	42.2	42.2	42.3	42.3	42.3	43.1
≥ 7000		34.6	35.3	38.7	40.1	40.4	41.4	42.2	42.3	42.9	42.9	42.9	43.0	43.0	43.0	43.8
≥ 6000		34.6	35.5	38.9	40.3	40.7	41.7	42.5	42.6	43.2	43.2	43.2	43.3	43.3	43.3	44.3
≥ 5000		36.6	37.5	41.2	43.0	43.5	44.9	46.1	46.1	46.7	46.7	46.7	46.8	46.8	46.8	47.8
≥ 4500		39.0	39.7	43.7	45.6	46.0	47.5	48.7	48.8	49.4	49.4	49.4	49.5	49.5	49.5	50.5
≥ 4000		43.1	44.2	48.6	50.5	50.9	52.6	53.9	54.1	54.8	54.8	54.8	55.0	55.0	55.0	56.1
≥ 3500		45.6	46.7	51.4	53.4	53.9	55.8	57.5	57.7	58.8	58.8	58.8	59.0	59.0	59.0	60.0
≥ 3000		49.6	51.1	56.1	58.1	58.5	62.5	62.5	63.6	63.6	63.6	63.6	63.8	63.8	63.8	64.8
≥ 2500		52.6	54.6	59.6	61.7	62.3	64.6	66.5	66.8	68.0	68.0	68.0	68.2	68.2	68.2	69.3
≥ 2000		57.5	60.2	65.5	67.8	68.3	71.1	73.0	73.5	74.6	74.6	74.6	74.9	74.9	74.9	75.9
≥ 1800		58.8	61.0	66.6	68.8	69.4	72.4	74.3	74.8	76.1	76.1	76.1	76.3	76.3	76.3	77.3
≥ 1600		61.6	63.9	69.9	72.4	73.0	76.3	78.3	78.7	80.1	80.1	80.1	80.4	80.4	80.4	81.4
≥ 1400		63.3	65.7	73.0	75.7	76.4	79.9	82.5	82.6	84.1	84.1	84.1	84.3	84.3	84.3	85.4
≥ 1200		64.1	66.6	74.4	77.2	77.9	81.7	84.0	84.7	86.4	86.4	86.4	86.7	86.7	86.7	87.7
≥ 1000		64.3	66.7	74.6	77.5	78.2	81.9	84.2	84.9	86.7	86.7	86.7	86.9	86.9	86.9	88.0
≥ 900		64.3	66.7	74.6	77.5	78.2	82.7	84.5	85.3	87.0	87.3	87.3	87.5	87.5	87.5	88.6
≥ 800		64.8	67.3	75.5	78.4	79.1	82.9	85.4	86.2	88.1	88.3	88.3	88.9	88.9	88.9	90.1
≥ 700		65.1	67.5	75.8	78.9	79.6	83.8	86.2	87.0	88.9	89.1	89.5	89.7	89.6	89.6	90.9
≥ 600		65.1	67.5	76.2	79.4	80.1	84.6	87.5	88.3	90.3	90.5	90.9	91.1	91.4	91.7	92.4
≥ 500		65.1	67.5	76.3	79.6	80.4	85.2	88.2	89.3	91.8	92.1	92.4	92.6	92.9	93.2	93.9
≥ 400		65.1	67.5	76.4	79.9	80.8	86.0	89.0	90.2	92.9	93.3	94.2	94.7	95.4	96.0	97.1
≥ 300		65.1	67.5	76.4	79.9	80.8	86.0	89.0	90.2	93.0	93.5	94.3	95.0	96.1	96.8	98.4
≥ 200		65.1	67.5	76.4	79.9	80.8	86.0	89.0	90.2	93.0	93.5	94.3	95.0	96.3	97.8	100.0
≥ 100		65.1	67.5	76.4	79.9	80.8	86.0	89.0	90.2	93.0	93.5	94.3	95.0	96.3	97.8	100.0

TOTAL NUMBER OF OBSERVATIONS 456

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AFD WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

75621

ALCONBURY RAF UK

74-83

JAN

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400

CEILING FEET	VISIBILITY STATUTE MILES OR (HUNDREDS OF METERS)															
	>10	GE9	GE8	GE6	GE4	GE3	GE2	GE1	GE0	GE16	GE12	GE10	GE8	GE6	GE4	GE2
>20000	21.7	21.7	22.8	23.4	23.5	23.8	24.1	24.1	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.7
20000	26.7	28.8	30.9	31.5	31.7	32.1	32.3	32.5	32.7	32.8	32.9	32.9	33.0	33.0	33.0	33.3
18000	29.3	29.4	31.5	32.0	32.2	32.7	32.9	33.0	33.2	33.3	33.4	33.4	33.6	33.6	33.6	33.9
16000	29.3	29.4	31.5	32.0	32.2	32.7	32.9	33.0	33.2	33.3	33.4	33.4	33.6	33.6	33.6	33.9
14000	29.4	29.5	31.6	32.1	32.3	32.8	33.0	33.1	33.3	33.4	33.6	33.6	33.7	33.7	33.7	34.0
12000	29.6	29.7	31.8	32.3	32.6	33.0	33.2	33.3	33.6	33.7	33.8	33.8	33.9	33.9	33.9	34.2
10000	31.4	31.5	33.8	34.6	34.9	35.3	35.5	35.6	35.9	36.0	36.1	36.1	36.2	36.2	36.5	36.5
8000	32.5	32.6	35.0	36.0	36.4	36.8	37.1	37.3	37.5	37.6	37.7	37.7	37.8	37.8	38.2	38.2
6000	37.2	37.6	40.6	41.8	42.2	42.9	43.1	43.3	43.6	43.8	43.9	43.9	44.0	44.0	44.3	44.3
4000	37.7	38.2	41.1	42.3	42.8	43.4	43.6	43.9	44.2	44.3	44.4	44.4	44.5	44.5	44.8	44.8
2000	38.4	38.8	41.9	43.1	43.5	44.2	44.4	44.6	45.0	45.1	45.2	45.2	45.3	45.3	45.6	45.6
1000	39.6	40.0	43.6	45.0	45.5	46.2	46.4	46.6	46.9	47.0	47.1	47.1	47.3	47.3	47.6	47.6
500	42.4	42.8	44.7	46.1	46.6	47.6	47.8	48.0	48.6	48.7	48.8	48.8	48.9	48.9	49.2	49.2
250	45.0	45.5	49.7	51.1	51.8	52.9	53.3	53.5	54.2	54.3	54.4	54.4	54.5	54.5	54.8	54.8
150	47.9	48.5	52.7	54.3	54.9	56.4	56.9	57.1	57.8	57.9	58.0	58.0	58.1	58.1	58.4	58.4
100	51.9	52.5	57.1	58.8	59.4	61.0	61.6	61.8	62.5	62.6	62.7	62.7	62.8	62.8	63.2	63.2
75	54.5	55.5	60.3	62.1	63.0	65.1	66.1	66.4	67.1	67.2	67.3	67.3	67.4	67.4	67.8	67.8
50	60.1	61.5	66.8	68.9	69.8	72.0	73.1	73.5	74.1	74.2	74.3	74.3	74.5	74.5	74.8	74.8
25	61.7	63.2	68.4	70.5	71.5	73.7	74.8	75.1	75.8	75.9	76.0	76.0	76.1	76.1	76.4	76.4
15	64.7	66.4	72.1	74.6	75.5	78.1	79.2	79.6	80.3	80.4	80.5	80.5	80.6	80.6	80.9	80.9
10	67.4	69.5	75.4	78.0	78.9	81.7	82.8	83.2	83.9	84.0	84.1	84.1	84.2	84.2	84.5	84.5
7.5	68.8	70.9	77.1	79.6	80.6	83.3	84.6	85.2	86.4	86.5	86.6	86.6	86.8	86.8	87.2	87.2
5	69.5	71.8	78.2	80.8	81.8	84.5	86.0	86.5	87.7	87.8	87.9	87.9	88.2	88.2	88.5	88.5
2.5	69.6	72.0	78.8	81.6	82.7	85.6	87.1	87.6	89.0	89.1	89.4	89.4	89.6	89.6	89.9	89.9
2	70.0	72.4	79.6	82.5	83.6	86.6	88.6	89.4	91.2	91.3	91.6	91.6	91.9	91.9	92.2	92.2
1.5	70.0	72.4	79.8	82.8	83.9	87.1	89.0	89.8	91.7	91.8	92.0	92.0	92.3	92.3	92.7	92.7
1	70.1	72.5	80.2	83.1	84.2	87.8	89.0	90.8	93.0	93.1	93.4	93.4	93.8	93.8	94.1	94.1
0.75	70.1	72.6	80.4	83.7	84.8	88.9	91.6	92.3	94.7	94.8	95.3	95.3	95.6	95.6	95.9	95.9
0.5	70.1	72.6	80.4	83.7	84.8	88.9	91.8	92.8	95.4	95.7	96.2	96.5	97.5	97.5	98.1	98.1
0.25	70.1	72.6	80.4	83.7	84.8	88.9	91.8	92.8	95.5	95.8	96.3	96.7	98.2	98.2	98.6	98.6
0.1	70.1	72.6	80.4	83.7	84.8	88.9	91.8	92.8	95.5	95.8	96.3	96.7	98.2	98.2	98.6	98.6

TOTAL NUMBER OF OBSERVATIONS 912

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION 075621 ALCONBURY RAF UK

74-83

YEAR MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700  
HOURS LST

CEILING FEET	VISIBILITY STATUTE MILES OR (HUNDREDS OF METERS)															
	≥10 >160	26 GE90	25 GE80	24 GE60	23 GE48	22 GE40	22 GE32	21 GE24	21 GE20	21 GE16	20 GE12	20 GE10	20 GE08	20 GE05	20 GE04	20 GE00
NO CEILING		21.9	21.7	23.6	24.2	24.3	25.2	25.8	25.8	25.9	25.9	26.0	26.0	26.0	26.0	26.2
≥ 20000		27.4	28.4	31.1	31.7	31.9	33.1	34.1	34.1	34.4	34.4	34.5	34.5	34.5	34.5	34.8
≥ 18000		27.5	28.5	31.3	31.8	32.0	33.2	34.2	34.2	34.5	34.5	34.6	34.6	34.6	34.6	34.9
≥ 16000		27.5	28.5	31.3	31.8	32.0	33.2	34.2	34.2	34.5	34.5	34.6	34.6	34.6	34.6	34.9
≥ 14000		27.9	28.9	31.6	32.1	32.3	33.6	34.5	34.5	34.9	34.9	35.0	35.0	35.0	35.0	35.2
≥ 12000		28.5	29.5	32.2	32.8	33.0	34.2	35.2	35.2	35.5	35.5	35.6	35.6	35.6	35.6	35.8
≥ 10000		31.3	32.3	35.2	35.8	36.1	37.4	38.4	38.4	38.7	38.7	38.9	38.9	38.9	38.9	39.1
≥ 9000		31.9	33.7	36.1	36.7	37.0	38.4	39.3	39.3	39.7	39.7	39.9	39.9	39.9	39.9	40.1
≥ 8000		35.6	36.7	41.1	40.9	41.3	42.8	44.2	44.2	44.5	44.5	44.7	44.7	44.7	44.7	44.9
≥ 7000		36.2	37.3	40.7	41.4	42.0	43.6	45.1	45.1	45.5	45.5	45.7	45.7	45.7	45.7	45.9
≥ 6000		36.4	37.7	41.3	42.1	42.6	44.3	45.8	45.8	46.1	46.1	46.3	46.3	46.3	46.3	46.6
≥ 5000		37.7	38.5	42.5	43.3	43.8	45.8	47.3	47.3	47.7	47.7	47.9	47.9	47.9	47.9	48.1
≥ 4500		39.3	40.9	45.2	46.0	46.6	48.7	50.3	50.3	50.6	50.6	50.8	50.8	50.8	50.8	51.0
≥ 4000		42.6	44.3	48.6	49.4	49.9	52.2	54.0	54.1	54.5	54.5	54.8	54.8	54.8	54.8	55.1
≥ 3500		46.2	48.7	52.3	53.4	54.0	56.5	58.4	58.5	59.0	59.0	59.2	59.2	59.2	59.2	59.6
≥ 3000		51.4	53.3	58.1	59.5	60.0	62.6	64.5	64.6	65.1	65.1	65.4	65.4	65.4	65.4	65.7
≥ 2500		55.7	58.0	63.1	64.4	65.0	67.7	69.6	69.8	70.4	70.4	70.6	70.6	70.6	70.6	70.9
≥ 2000		61.5	63.1	69.1	70.8	71.5	74.5	76.5	76.8	77.6	77.6	77.8	77.8	77.8	77.8	78.1
≥ 1800		61.6	64.3	70.3	72.1	72.8	75.8	77.8	78.1	78.9	78.9	79.1	79.1	79.1	79.1	79.5
≥ 1600		63.6	66.7	73.7	75.8	76.5	79.9	82.0	82.3	83.3	83.3	83.5	83.5	83.5	83.5	83.8
≥ 1400		65.0	68.3	75.8	78.4	79.1	82.6	84.8	85.7	86.3	86.3	86.6	86.6	86.6	86.6	86.9
≥ 1200		66.3	69.6	77.9	81.1	81.9	85.6	87.8	88.6	89.7	89.7	89.9	89.9	89.9	89.9	90.3
≥ 1000		66.7	69.9	78.7	82.0	82.7	86.6	88.7	89.7	90.8	90.8	91.0	91.0	91.0	91.0	91.4
≥ 900		66.9	70.5	79.6	82.8	83.6	87.5	89.8	90.8	92.0	92.0	92.2	92.2	92.2	92.2	92.6
≥ 800		67.2	70.8	80.1	83.8	84.6	88.9	91.1	92.1	93.3	93.3	93.6	93.6	93.6	93.6	93.9
≥ 700		67.2	70.8	80.1	84.2	84.9	89.6	92.1	93.1	94.3	94.3	94.8	94.8	94.8	94.8	95.1
≥ 600		67.2	70.9	80.3	84.5	85.2	90.7	92.7	93.8	95.0	95.0	95.4	95.4	95.4	95.4	95.7
≥ 500		67.3	71.1	80.5	84.7	85.5	90.7	93.6	94.9	96.4	96.4	96.8	96.8	96.8	96.8	97.2
≥ 400		67.3	71.1	80.5	84.7	85.5	90.7	93.6	94.9	96.4	96.4	96.8	96.8	96.8	96.8	97.2
≥ 300		67.3	71.1	80.5	84.7	85.5	90.7	93.6	94.9	96.4	96.4	96.8	96.8	96.8	96.8	97.2
≥ 200		67.3	71.1	80.5	84.7	85.5	90.7	93.6	94.9	96.4	96.4	96.8	96.8	96.8	96.8	97.2
≥ 100		67.3	71.1	80.5	84.7	85.5	90.7	93.6	94.9	96.4	96.4	96.8	96.8	96.8	96.8	97.2
≥ 0		67.3	71.1	80.5	84.7	85.5	90.7	93.6	94.9	96.4	96.4	96.8	96.8	96.8	96.8	97.2

TOTAL NUMBER OF OBSERVATIONS 915

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

75421 ALCONBURY RAF UK

74-83

JAN

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1822-2000

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10 >10	≥6 6-9	≥5 5-8	≥4 4-6	≥3 3-4	≥2 2-3	≥2 2-3	≥2 2-3	≥2 2-3	≥2 2-3	≥2 2-3	≥2 2-3	≥2 2-3	≥2 2-3	≥2 2-3	≥2 2-3
NO CEILING		24.6	25.6	27.3	28.3	28.3	29.1	29.6	29.8	29.9	29.9	30.0	30.2	30.3	30.3	30.4
≥ 20000		29.6	30.7	32.9	34.2	34.3	35.2	35.8	35.9	36.3	36.3	36.4	36.5	36.7	36.7	36.8
≥ 18000		29.6	30.7	33.0	34.3	34.5	35.4	35.9	36.0	36.4	36.4	36.5	36.7	36.8	36.8	36.9
≥ 16000		29.6	30.7	33.0	34.3	34.5	35.4	35.9	36.0	36.4	36.4	36.5	36.7	36.8	36.8	36.9
≥ 14000		30.0	31.1	33.3	34.6	34.7	35.6	36.2	36.3	36.7	36.7	36.8	36.9	37.1	37.1	37.2
≥ 12000		30.4	31.5	33.7	35.0	35.1	36.0	36.5	36.7	37.1	37.1	37.2	37.3	37.5	37.5	37.6
≥ 10000		33.2	34.2	36.4	37.7	37.8	38.8	39.4	39.7	40.1	40.2	40.3	40.4	40.6	40.6	40.7
≥ 9000		33.2	35.0	37.5	38.8	38.9	39.8	40.4	40.7	41.1	41.2	41.4	41.5	41.6	41.6	41.7
≥ 8000		37.5	38.8	41.5	42.9	43.0	44.0	44.6	44.9	45.5	45.6	45.8	45.9	46.0	46.2	46.2
≥ 7000		37.7	39.1	41.9	43.3	43.4	44.5	45.4	45.6	46.3	46.4	46.6	46.7	46.8	46.8	46.9
≥ 6000		38.1	39.5	42.3	43.7	43.8	45.0	45.9	46.2	46.8	46.9	47.1	47.2	47.3	47.3	47.5
≥ 5000		39.4	40.8	44.6	46.0	46.2	47.3	48.2	48.5	49.2	49.3	49.4	49.5	49.7	49.7	49.8
≥ 4500		42.7	44.1	48.4	49.8	49.9	51.2	52.1	52.4	53.1	53.2	53.3	53.4	53.6	53.6	53.7
≥ 4000		46.2	47.6	52.7	54.1	54.2	55.8	56.7	57.0	57.6	57.7	57.9	58.0	58.1	58.1	58.3
≥ 3500		49.0	50.6	56.0	57.5	57.6	59.2	60.5	60.7	61.4	61.5	61.6	61.8	61.9	61.9	62.0
≥ 3000		52.8	54.5	60.5	62.2	62.3	63.8	65.4	65.7	66.3	66.4	66.6	66.7	66.8	66.8	67.0
≥ 2500		56.0	57.9	64.9	67.4	67.5	69.2	71.0	71.3	71.9	72.0	72.2	72.3	72.4	72.4	72.6
≥ 2000		59.8	61.9	69.6	72.3	73.1	74.9	76.7	77.0	77.6	77.8	77.9	78.0	78.2	78.2	78.3
≥ 1800		60.0	62.9	70.6	73.3	74.1	75.9	77.8	78.0	78.7	78.8	78.9	79.1	79.2	79.2	79.3
≥ 1500		64.6	67.0	75.0	77.9	78.8	80.6	82.6	82.8	83.5	83.7	83.9	84.0	84.1	84.1	84.3
≥ 1200		65.9	68.9	77.6	81.1	82.1	84.1	86.1	86.5	87.1	87.4	87.5	87.6	87.8	87.8	87.9
≥ 1000		66.3	69.3	79.2	82.7	83.6	85.2	88.6	89.3	90.0	90.2	90.4	90.5	90.6	90.6	90.8
≥ 900		66.4	69.4	80.1	83.7	84.8	87.5	89.9	90.6	91.4	91.7	91.8	91.9	92.1	92.1	92.2
≥ 800		66.7	70.0	80.6	84.3	85.3	88.2	90.6	91.4	92.2	92.5	92.6	92.7	92.8	92.8	93.0
≥ 700		66.8	70.1	81.3	85.0	86.1	88.9	91.8	92.7	93.5	93.8	94.0	94.1	94.3	94.3	94.4
≥ 600		66.8	70.1	81.3	85.4	86.5	89.6	92.7	93.6	94.4	94.8	95.1	95.2	95.3	95.3	95.4
≥ 500		66.8	70.1	81.4	85.8	86.9	90.0	93.1	94.1	94.9	95.3	95.6	95.7	95.8	95.8	96.0
≥ 400		66.8	70.1	81.4	86.1	87.1	90.2	93.8	95.3	96.1	96.5	96.9	97.3	97.7	97.7	97.8
≥ 300		66.8	70.1	81.4	86.1	87.1	90.2	94.0	95.6	96.4	96.7	97.1	97.5	97.9	97.9	98.7
≥ 200		66.8	70.1	81.4	86.2	87.3	90.6	94.3	95.8	96.6	97.0	97.4	97.8	98.2	98.3	99.6
≥ 100		66.8	70.1	81.4	86.2	87.3	90.6	94.3	95.8	96.6	97.0	97.4	97.8	98.2	98.3	99.6
≥ 0		66.8	70.1	81.4	86.2	87.3	90.6	94.3	95.8	96.6	97.0	97.4	97.8	98.2	98.3	100.0

TOTAL NUMBER OF OBSERVATIONS 769

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION 75621 ALCONBURY RAF UK

YEARS 74-83

MONTH JAN

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURS 2100-2300

CEILING FEET	VISIBILITY STATUTE MILES OR (HUNDREDS OF METERS)															
	210	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
>1600	30.6	31.5	32.8	32.9	33.1	34.4	34.9	35.1	35.2	35.3	35.3	35.6	35.8	36.3	36.7	36.7
1500	34.4	35.2	36.8	37.0	37.2	38.8	39.4	39.5	39.7	39.8	39.8	40.1	40.2	40.7	41.1	41.1
1400	34.8	35.6	37.2	37.4	37.6	39.2	39.8	39.9	40.1	40.2	40.2	40.5	40.6	41.1	41.5	41.5
1300	34.9	35.8	37.4	37.5	37.8	39.4	39.9	40.1	40.2	40.3	40.3	40.6	40.7	41.3	41.7	41.7
1200	34.9	35.8	37.4	37.5	37.8	39.4	39.9	40.1	40.2	40.3	40.3	40.6	40.7	41.3	41.7	41.7
1100	36.3	37.1	38.6	39.1	39.4	41.0	41.5	41.7	42.1	42.2	42.2	42.5	42.6	43.1	43.5	43.5
1000	36.7	37.5	39.4	39.7	39.9	41.5	42.1	42.2	42.6	42.7	42.7	43.0	43.1	43.7	44.1	44.1
900	39.6	40.7	42.9	43.1	43.4	45.0	45.8	46.0	46.4	46.5	46.5	46.8	46.9	47.4	47.8	47.8
800	40.1	41.0	43.1	43.4	43.7	45.3	46.5	46.6	47.0	47.2	47.2	47.4	47.6	48.1	48.5	48.5
700	40.2	41.1	43.3	43.8	44.1	45.8	47.0	47.2	47.6	47.7	47.7	48.0	48.1	48.7	49.1	49.1
600	41.8	42.9	45.7	46.5	46.9	48.7	49.9	50.0	50.4	50.5	50.5	50.8	50.9	51.5	51.9	51.9
500	44.1	45.2	48.3	49.3	49.7	51.6	52.8	53.0	53.4	53.5	53.5	53.8	53.9	54.4	54.8	54.8
400	46.0	48.0	51.6	52.7	53.1	55.0	56.2	56.3	56.7	56.9	56.9	57.1	57.3	57.8	58.2	58.2
300	49.9	51.2	55.4	56.5	56.9	58.9	60.2	60.6	61.0	61.2	61.2	61.4	61.6	62.1	62.5	62.5
200	51.9	53.4	57.9	59.1	59.7	61.8	63.6	64.0	64.5	64.7	64.7	64.9	65.1	65.6	66.0	66.0
100	56.0	57.7	63.4	64.9	65.7	68.0	69.8	70.3	70.8	71.0	71.0	71.2	71.4	71.9	72.3	72.3
80	59.4	61.0	67.1	69.2	70.0	72.4	74.2	74.9	75.4	75.5	75.5	75.8	75.9	76.5	76.9	76.9
60	61.7	63.4	69.5	71.8	72.6	75.0	76.7	77.4	78.0	78.1	78.1	78.4	78.5	79.0	79.4	79.4
40	66.4	68.4	74.9	77.4	78.5	81.2	83.1	83.7	84.4	84.5	84.5	84.8	84.9	85.5	85.9	85.9
20	68.8	71.1	77.7	80.6	81.7	84.8	86.7	87.4	88.0	88.2	88.2	88.4	88.6	89.1	89.5	89.5
10	69.2	71.6	78.6	81.7	82.8	85.9	87.8	88.7	89.5	89.7	89.7	89.9	90.1	90.6	91.0	91.0
900	69.6	72.0	79.7	82.9	84.0	87.2	89.1	90.2	91.1	91.3	91.3	91.5	91.7	92.2	92.6	92.6
800	69.9	72.4	80.2	83.9	84.9	88.3	90.2	91.3	92.3	92.5	92.5	92.7	92.9	93.4	93.8	93.8
700	70.3	72.8	80.6	84.3	85.3	88.7	90.9	92.0	93.4	93.5	93.5	93.8	94.0	94.5	94.9	94.9
600	70.3	72.8	80.9	84.8	86.0	89.5	91.7	93.1	94.2	94.4	94.5	94.8	95.0	95.6	96.0	96.0
500	70.3	72.8	80.9	84.8	86.2	89.7	92.1	93.5	94.6	94.8	94.9	95.2	95.4	96.0	96.4	96.4
400	70.3	72.8	80.9	85.1	86.4	90.2	92.6	94.1	95.2	95.3	95.4	95.7	96.0	96.5	97.0	97.0
300	70.3	72.8	80.9	85.2	86.6	90.3	93.0	94.5	96.1	96.5	96.6	96.9	97.3	98.0	98.1	98.1
200	70.3	72.8	80.9	85.2	86.6	90.3	93.0	94.5	96.1	96.5	96.6	96.9	97.3	98.0	98.1	98.1
100	70.3	72.8	80.9	85.2	86.6	90.3	93.0	94.5	96.1	96.5	96.6	96.9	97.3	98.0	98.1	98.1

TOTAL NUMBER OF OBSERVATIONS 744

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

155521 ALCONBURY RAF UK

74-83

JAN

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL  
HOURS LST

CEILING FEET	VISIBILITY STATUTE MILES OR (HUNDREDS OF METERS)																			
	>10 >16	GE9.5	GE6.0	GE6.0	GE4.8	GE4.0	GE3.2	GE2.4	GE2.0	GE1.6	GE1.2	GE1.0	GE0.8	GE0.5	GE0.4	GE0.3	GE0.2	GE0.1	GE0.0	GE0.0
20000	23.7	24.3	25.8	26.5	26.6	27.4	27.9	28.1	28.3	28.4	28.4	28.5	28.7	28.9	29.2	29.2	29.2	29.2	29.2	29.2
18000	24.0	24.7	26.2	26.9	27.0	27.8	28.3	28.5	28.7	28.8	28.9	29.0	29.2	29.4	29.7	29.7	29.7	29.7	29.7	29.7
16000	24.0	24.7	26.2	26.9	27.0	27.8	28.3	28.5	28.7	28.8	28.9	29.0	29.2	29.4	29.7	29.7	29.7	29.7	29.7	29.7
14000	24.0	24.7	26.2	26.9	27.0	27.8	28.3	28.5	28.7	28.8	28.9	29.0	29.2	29.4	29.7	29.7	29.7	29.7	29.7	29.7
12000	24.0	24.7	26.2	26.9	27.0	27.8	28.3	28.5	28.7	28.8	28.9	29.0	29.2	29.4	29.7	29.7	29.7	29.7	29.7	29.7
10000	24.0	24.7	26.2	26.9	27.0	27.8	28.3	28.5	28.7	28.8	28.9	29.0	29.2	29.4	29.7	29.7	29.7	29.7	29.7	29.7
9000	24.0	24.7	26.2	26.9	27.0	27.8	28.3	28.5	28.7	28.8	28.9	29.0	29.2	29.4	29.7	29.7	29.7	29.7	29.7	29.7
8000	24.0	24.7	26.2	26.9	27.0	27.8	28.3	28.5	28.7	28.8	28.9	29.0	29.2	29.4	29.7	29.7	29.7	29.7	29.7	29.7
7000	24.0	24.7	26.2	26.9	27.0	27.8	28.3	28.5	28.7	28.8	28.9	29.0	29.2	29.4	29.7	29.7	29.7	29.7	29.7	29.7
6000	24.0	24.7	26.2	26.9	27.0	27.8	28.3	28.5	28.7	28.8	28.9	29.0	29.2	29.4	29.7	29.7	29.7	29.7	29.7	29.7
5000	24.0	24.7	26.2	26.9	27.0	27.8	28.3	28.5	28.7	28.8	28.9	29.0	29.2	29.4	29.7	29.7	29.7	29.7	29.7	29.7
4500	24.0	24.7	26.2	26.9	27.0	27.8	28.3	28.5	28.7	28.8	28.9	29.0	29.2	29.4	29.7	29.7	29.7	29.7	29.7	29.7
4000	24.0	24.7	26.2	26.9	27.0	27.8	28.3	28.5	28.7	28.8	28.9	29.0	29.2	29.4	29.7	29.7	29.7	29.7	29.7	29.7
3500	24.0	24.7	26.2	26.9	27.0	27.8	28.3	28.5	28.7	28.8	28.9	29.0	29.2	29.4	29.7	29.7	29.7	29.7	29.7	29.7
3000	24.0	24.7	26.2	26.9	27.0	27.8	28.3	28.5	28.7	28.8	28.9	29.0	29.2	29.4	29.7	29.7	29.7	29.7	29.7	29.7
2500	24.0	24.7	26.2	26.9	27.0	27.8	28.3	28.5	28.7	28.8	28.9	29.0	29.2	29.4	29.7	29.7	29.7	29.7	29.7	29.7
2000	24.0	24.7	26.2	26.9	27.0	27.8	28.3	28.5	28.7	28.8	28.9	29.0	29.2	29.4	29.7	29.7	29.7	29.7	29.7	29.7
1800	24.0	24.7	26.2	26.9	27.0	27.8	28.3	28.5	28.7	28.8	28.9	29.0	29.2	29.4	29.7	29.7	29.7	29.7	29.7	29.7
1600	24.0	24.7	26.2	26.9	27.0	27.8	28.3	28.5	28.7	28.8	28.9	29.0	29.2	29.4	29.7	29.7	29.7	29.7	29.7	29.7
1400	24.0	24.7	26.2	26.9	27.0	27.8	28.3	28.5	28.7	28.8	28.9	29.0	29.2	29.4	29.7	29.7	29.7	29.7	29.7	29.7
1200	24.0	24.7	26.2	26.9	27.0	27.8	28.3	28.5	28.7	28.8	28.9	29.0	29.2	29.4	29.7	29.7	29.7	29.7	29.7	29.7
1000	24.0	24.7	26.2	26.9	27.0	27.8	28.3	28.5	28.7	28.8	28.9	29.0	29.2	29.4	29.7	29.7	29.7	29.7	29.7	29.7
900	24.0	24.7	26.2	26.9	27.0	27.8	28.3	28.5	28.7	28.8	28.9	29.0	29.2	29.4	29.7	29.7	29.7	29.7	29.7	29.7
800	24.0	24.7	26.2	26.9	27.0	27.8	28.3	28.5	28.7	28.8	28.9	29.0	29.2	29.4	29.7	29.7	29.7	29.7	29.7	29.7
700	24.0	24.7	26.2	26.9	27.0	27.8	28.3	28.5	28.7	28.8	28.9	29.0	29.2	29.4	29.7	29.7	29.7	29.7	29.7	29.7
600	24.0	24.7	26.2	26.9	27.0	27.8	28.3	28.5	28.7	28.8	28.9	29.0	29.2	29.4	29.7	29.7	29.7	29.7	29.7	29.7
500	24.0	24.7	26.2	26.9	27.0	27.8	28.3	28.5	28.7	28.8	28.9	29.0	29.2	29.4	29.7	29.7	29.7	29.7	29.7	29.7
400	24.0	24.7	26.2	26.9	27.0	27.8	28.3	28.5	28.7	28.8	28.9	29.0	29.2	29.4	29.7	29.7	29.7	29.7	29.7	29.7
300	24.0	24.7	26.2	26.9	27.0	27.8	28.3	28.5	28.7	28.8	28.9	29.0	29.2	29.4	29.7	29.7	29.7	29.7	29.7	29.7
200	24.0	24.7	26.2	26.9	27.0	27.8	28.3	28.5	28.7	28.8	28.9	29.0	29.2	29.4	29.7	29.7	29.7	29.7	29.7	29.7
100	24.0	24.7	26.2	26.9	27.0	27.8	28.3	28.5	28.7	28.8	28.9	29.0	29.2	29.4	29.7	29.7	29.7	29.7	29.7	29.7
0	24.0	24.7	26.2	26.9	27.0	27.8	28.3	28.5	28.7	28.8	28.9	29.0	29.2	29.4	29.7	29.7	29.7	29.7	29.7	29.7

TOTAL NUMBER OF OBSERVATIONS 6166

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

C35621

ALCONBURY RAF UK

74-70.82-83

FEB

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0000-0200  
HOURS LT

CEILING FEET	VISIBILITY STATUTE MILES																OR (HUNDREDS OF METERS)			
	≥10 >160	26 GF93	25 GF87	24 GF81	23 GF74	22 GF67	21 GF60	20 GF54	19 GF48	18 GF42	17 GF36	16 GF30	15 GF24	14 GF18	13 GF12	12 GF6	216	214	212	210
NO CEILING		22.5	23.2	27.8	28.0	28.8	33.3	30.8	31.7	31.8	31.8	31.8	31.8	31.8	31.8	31.8	32.1	32.1	32.1	32.8
≥ 20000		24.7	25.8	30.6	30.8	31.6	33.1	33.6	34.1	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.8	34.8	34.8	35.6
≥ 18000		24.7	25.8	30.6	30.8	31.6	33.1	33.6	34.1	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.8	34.8	34.8	35.6
≥ 16000		24.7	25.8	30.6	30.8	31.6	33.1	33.6	34.1	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.8	34.8	34.8	35.6
≥ 14000		24.7	25.8	30.6	30.8	31.6	33.1	33.6	34.1	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.8	34.8	34.8	35.6
≥ 12000		25.0	26.0	30.8	31.1	31.8	33.3	33.8	34.3	34.8	34.8	34.8	34.8	34.8	34.8	34.8	35.1	35.1	35.1	35.9
≥ 10000		25.3	26.8	31.8	32.6	33.3	34.6	35.4	35.9	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.6	36.6	36.6	37.4
≥ 9000		26.3	27.8	32.8	33.6	34.3	35.9	36.4	36.9	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.6	37.6	37.6	38.4
≥ 8000		27.0	28.5	33.6	34.3	35.1	36.6	37.1	37.9	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.6	38.6	38.6	39.4
≥ 7000		27.0	28.5	33.6	34.3	35.1	36.6	37.1	37.9	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.6	38.6	38.6	39.4
≥ 6000		27.0	28.5	33.6	34.3	35.1	36.6	37.1	37.9	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.6	38.6	38.6	39.4
≥ 5000		27.5	29.0	34.1	34.8	35.6	37.1	37.6	38.4	38.9	38.9	38.9	38.9	38.9	38.9	38.9	39.1	39.1	39.1	39.9
≥ 4500		29.5	31.1	36.4	37.4	38.4	40.2	40.7	41.4	41.9	41.9	41.9	41.9	41.9	41.9	41.9	42.2	42.2	42.2	42.9
≥ 4000		31.1	32.8	38.9	39.9	40.9	42.7	43.4	44.2	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.9	44.9	44.9	45.7
≥ 3500		35.1	36.9	43.7	44.7	45.7	47.5	49.2	50.0	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.8	50.8	50.8	51.5
≥ 3000		38.4	40.2	47.2	48.2	49.2	51.5	53.6	54.5	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.3	55.3	55.3	56.1
≥ 2500		42.2	43.9	51.3	53.3	54.3	57.3	59.6	60.4	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.4	61.4	61.4	62.1
≥ 2000		45.2	47.2	56.1	58.3	59.6	62.9	65.7	66.4	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.4	67.4	67.4	68.7
≥ 1800		46.2	48.2	57.3	59.6	60.9	64.1	66.9	67.7	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.7	68.7	68.7	69.9
≥ 1500		48.5	50.8	60.9	63.1	64.4	67.7	70.7	71.5	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.7	72.7	72.7	74.0
≥ 1200		50.0	52.3	63.6	66.2	67.4	71.2	74.2	75.0	75.8	76.3	76.5	76.5	76.5	76.5	76.5	76.8	76.8	76.8	77.8
≥ 1000		52.0	54.3	66.4	68.9	70.5	74.5	77.5	78.5	79.3	79.8	80.1	80.1	80.1	80.1	80.1	80.3	80.3	80.3	81.3
≥ 900		52.3	54.5	66.9	69.4	71.2	75.3	78.3	79.3	80.1	80.6	80.8	80.8	80.8	80.8	80.8	81.1	81.1	81.1	82.1
≥ 800		52.6	55.1	68.2	70.7	72.5	76.8	80.1	81.6	82.3	82.8	83.1	83.1	83.1	83.1	83.1	83.3	83.3	83.3	84.3
≥ 700		54.0	56.3	69.4	72.2	74.0	78.3	81.6	83.1	84.1	84.6	84.8	84.8	84.8	84.8	84.8	85.1	85.1	85.1	86.1
≥ 600		54.0	56.3	69.4	72.2	74.0	78.5	82.6	84.3	85.4	85.9	86.1	86.1	86.1	86.1	86.1	86.4	86.4	86.4	87.4
≥ 500		54.0	56.3	69.4	72.5	74.2	79.0	83.1	84.8	85.9	86.6	86.9	87.1	87.1	87.1	87.1	87.4	87.4	87.4	88.1
≥ 400		54.0	56.3	69.4	72.5	74.2	79.3	83.6	85.4	86.4	87.1	87.4	87.4	87.4	87.4	87.4	87.7	87.7	87.7	88.6
≥ 300		54.0	56.3	69.7	72.7	74.5	79.5	83.8	85.9	87.4	88.6	89.4	89.9	90.7	90.9	91.4	91.4	91.4	91.4	92.7
≥ 200		54.0	56.3	69.9	73.0	74.7	79.8	84.1	86.1	88.1	89.4	90.4	91.4	92.7	93.4	93.4	93.4	93.4	93.4	94.7
≥ 100		54.0	56.3	69.9	73.0	74.7	79.8	84.1	86.1	88.1	89.4	90.4	91.4	92.7	93.4	93.4	93.4	93.4	93.4	94.7
≥ 50		54.0	56.3	69.9	73.0	74.7	79.8	84.1	86.1	88.1	89.4	90.4	91.4	92.7	93.4	93.4	93.4	93.4	93.4	94.7

TOTAL NUMBER OF OBSERVATIONS 396

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

25627 ALCONBURY RAF UK

74-87

FEB

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0100-0500  
HOURS

CEILING FEET	VISIBILITY STATUTE MILES OR (HUNDREDS OF METERS)															
	>10	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
>10000	18.3	19.1	24.0	25.6	25.2	26.5	27.0	27.2	27.7	27.7	27.7	27.7	27.7	27.8	28.0	29.6
2 18000	19.6	20.6	26.7	28.1	28.3	29.6	30.0	30.3	30.6	30.8	30.8	30.8	30.8	30.9	31.1	32.7
2 16000	19.9	20.9	27.0	28.4	28.6	29.9	30.3	30.6	31.1	31.1	31.1	31.1	31.1	31.2	31.4	33.0
2 14000	19.9	20.9	27.0	28.4	28.6	29.9	30.3	30.6	31.1	31.1	31.1	31.1	31.1	31.2	31.4	33.0
2 12000	20.0	21.1	27.1	28.6	28.7	30.0	30.5	30.8	31.2	31.2	31.2	31.2	31.2	31.4	31.5	33.1
2 10000	20.5	21.5	27.5	29.0	29.2	30.5	30.9	31.2	31.7	31.7	31.7	31.7	31.7	31.8	32.0	33.6
2 9000	21.9	23.1	29.2	30.6	30.8	32.1	32.5	32.8	33.3	33.3	33.3	33.3	33.3	33.4	33.6	35.2
2 8000	23.0	24.2	30.2	31.7	31.8	33.1	33.6	33.9	34.3	34.3	34.3	34.3	34.3	34.5	34.6	36.2
2 7000	24.0	25.2	32.0	33.4	33.6	35.3	35.6	36.1	36.5	36.5	36.5	36.5	36.5	36.7	36.8	38.4
2 6000	24.2	25.3	32.1	33.7	33.9	35.6	36.1	36.4	36.8	36.8	36.8	36.8	36.8	37.0	37.1	38.7
2 5000	24.2	25.3	32.4	34.2	34.3	36.1	36.5	36.8	37.3	37.3	37.3	37.3	37.3	37.4	37.6	39.2
2 4500	25.3	26.5	34.5	36.2	36.4	38.1	38.6	38.9	39.3	39.3	39.3	39.3	39.3	39.5	39.6	41.2
2 4000	26.1	27.2	35.6	37.4	37.6	39.3	39.8	40.1	40.5	40.5	40.5	40.5	40.5	40.6	40.8	42.4
2 3500	28.6	30.0	39.8	41.8	42.1	43.9	44.5	44.8	45.5	45.5	45.5	45.5	45.5	45.7	45.8	47.4
2 3000	30.0	32.3	42.9	45.2	45.7	47.6	48.7	49.0	49.8	49.8	49.8	49.8	49.8	49.9	50.1	51.7
2 2500	34.0	36.1	48.5	51.4	51.8	53.8	55.1	55.4	56.4	56.4	56.4	56.4	56.4	56.6	56.7	58.3
2 2000	37.4	39.6	52.3	55.5	56.0	58.6	60.4	60.8	61.9	61.9	61.9	61.9	61.9	62.0	62.2	63.8
2 1800	40.9	43.3	56.3	60.1	60.7	63.5	65.5	66.0	67.5	67.5	67.5	67.5	67.5	67.6	67.7	69.4
2 1600	41.2	43.7	56.8	60.7	61.3	64.1	66.1	66.6	68.0	68.0	68.0	68.0	68.0	68.2	68.3	70.0
2 1500	42.9	45.8	59.9	63.0	64.9	68.2	70.4	70.8	72.6	72.6	72.6	72.6	72.6	72.8	72.9	74.5
2 1200	45.8	48.9	64.4	68.6	69.7	73.0	75.7	76.4	79.2	79.4	79.4	79.4	79.4	79.5	79.7	81.3
2 1000	46.1	49.3	65.1	69.4	70.4	73.8	76.4	77.2	80.0	80.1	80.1	80.1	80.1	80.3	80.4	82.0
2 900	46.7	49.9	65.7	70.1	71.1	74.8	77.5	78.2	81.1	81.3	81.3	81.3	81.3	81.4	81.6	83.2
2 800	46.6	50.2	66.3	70.7	72.0	76.1	78.9	79.7	82.8	83.1	83.1	83.1	83.1	83.2	83.4	85.0
2 700	46.8	50.7	67.0	71.4	72.9	77.5	80.3	81.0	84.2	84.5	84.5	84.5	84.5	84.6	84.7	86.3
2 600	46.8	50.7	67.3	71.7	73.2	77.8	80.7	81.9	85.1	85.6	85.6	85.6	85.6	85.7	85.9	87.5
2 500	46.8	50.7	67.6	72.0	73.6	78.2	81.1	82.3	85.7	86.2	86.2	86.2	86.2	86.3	86.4	88.0
2 400	46.8	50.7	67.6	72.2	73.8	78.4	81.6	83.1	86.7	87.5	87.5	87.5	87.5	87.6	87.7	89.3
2 300	46.8	50.7	67.6	72.2	73.8	78.8	82.0	83.9	88.1	89.0	89.0	89.0	89.0	89.1	89.2	90.8
2 200	46.8	50.7	67.6	72.2	73.8	78.9	82.2	84.1	89.1	90.0	90.0	90.0	90.0	90.1	90.2	91.8
2 150	46.8	50.7	67.6	72.2	73.8	78.9	82.2	84.2	89.2	90.1	90.1	90.1	90.1	90.2	90.3	91.9
2 100	46.8	50.7	67.6	72.2	73.8	78.9	82.2	84.2	89.2	90.1	90.1	90.1	90.1	90.2	90.3	91.9

TOTAL NUMBER OF OBSERVATIONS 679

USAF ETAC 1784 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AFC WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

35521  
STATION

ALCONBURY RAF UK  
STATION NAME

74-87  
YEARS

FEB  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

600-0800  
HOURS

CEILING FEET	VISIBILITY: STATUTE MILES OR (HUNDREDS OF METERS)															
	≥10 >160	≥6 GF97	≥5 GF87	≥4 GF60	≥3 GF48	≥2.5 GF40	≥2 GF32	≥1.5 GF24	≥1.25 GF20	≥1 GF16	≥0.75 GF12	≥0.5 GF10	≥0.25 GF08	≥0.15 GF05	≥0.1 GF04	≥0.05 GF02
NO CEILING		15.6	16.4	18.4	18.8	19.2	20.8	21.2	21.7	23.3	23.3	23.4	23.4	23.5	24.1	24.7
≥ 20000		18.1	19.3	21.6	22.0	22.6	24.6	25.1	25.7	27.2	27.4	27.5	27.5	27.6	28.2	28.8
≥ 18000		18.4	19.6	21.8	22.2	22.9	24.9	25.4	25.9	27.5	27.6	27.8	27.8	27.9	28.4	29.1
≥ 16000		18.4	19.6	21.8	22.2	22.9	24.9	25.4	25.9	27.5	27.6	27.8	27.8	27.9	28.4	29.1
≥ 14000		18.4	19.6	21.8	22.2	22.9	24.9	25.4	25.9	27.5	27.6	27.8	27.8	27.9	28.4	29.1
≥ 12000		18.4	19.6	21.8	22.2	22.9	24.9	25.4	25.9	27.5	27.6	27.8	27.8	27.9	28.4	29.1
≥ 10000		19.3	20.6	22.9	23.3	24.1	26.1	26.6	27.1	28.7	28.8	29.0	29.0	29.1	29.6	30.3
≥ 9000		19.6	20.9	23.1	23.5	24.3	26.3	26.9	27.4	29.0	29.1	29.2	29.2	29.4	29.9	30.6
≥ 8000		22.0	23.3	25.9	26.3	27.1	29.5	30.0	30.6	32.3	32.4	32.5	32.5	32.7	33.2	33.9
≥ 7000		22.6	24.1	26.9	27.2	28.0	30.4	31.1	31.6	33.3	33.5	33.6	33.6	33.7	34.3	34.9
≥ 6000		22.9	24.2	27.0	27.4	28.2	30.6	31.2	31.7	33.5	33.6	33.7	33.7	33.9	34.4	35.1
≥ 5000		24.3	25.7	28.7	29.2	30.0	32.4	33.1	33.6	35.3	35.4	35.6	35.6	35.7	36.2	36.9
≥ 4500		25.0	26.6	30.2	30.7	31.6	34.1	34.9	35.4	37.3	37.4	37.6	37.6	37.7	38.2	38.9
≥ 4000		26.7	28.6	32.7	33.3	34.4	37.3	38.1	38.6	40.5	40.6	40.7	40.7	40.9	41.4	42.1
≥ 3500		29.9	31.6	36.5	37.7	38.8	41.9	43.0	43.5	45.9	46.0	46.2	46.2	46.3	46.8	47.5
≥ 3000		32.1	34.1	40.1	41.4	42.5	45.8	47.1	47.9	50.4	50.5	50.7	50.7	50.8	51.3	52.0
≥ 2500		36.2	38.6	44.8	46.4	47.8	51.3	53.2	54.4	57.1	57.3	57.4	57.4	57.5	58.1	58.7
≥ 2000		39.7	42.2	48.9	50.7	52.1	56.2	58.1	59.3	62.0	62.3	62.4	62.4	62.8	63.4	64.0
≥ 1800		40.3	42.9	49.7	51.5	52.9	57.1	59.1	60.3	63.1	63.4	63.5	63.5	63.9	64.4	65.1
≥ 1600		41.9	44.6	51.6	53.3	54.9	59.5	61.8	63.1	66.1	66.4	66.5	66.5	66.9	67.5	68.1
≥ 1400		43.9	46.6	54.6	57.0	58.7	63.9	66.5	67.9	71.2	71.6	71.7	71.8	72.2	72.8	73.5
≥ 1200		45.2	48.0	56.3	58.7	60.4	65.7	68.5	70.2	74.2	75.0	75.1	75.4	75.8	76.3	77.1
≥ 1000		45.6	48.5	57.5	59.9	61.6	67.1	69.8	71.6	75.5	76.5	76.6	77.0	77.4	77.9	78.7
≥ 900		46.7	49.5	58.7	61.6	63.4	68.9	71.7	73.4	77.9	78.8	79.0	79.5	79.9	80.4	81.2
≥ 800		46.4	49.9	59.7	62.6	64.3	70.4	73.3	75.0	79.5	80.4	80.6	81.1	81.5	82.0	82.8
≥ 700		46.4	49.9	60.1	63.2	64.9	71.3	74.2	76.2	81.2	82.3	82.4	83.1	83.5	84.0	84.8
≥ 600		46.4	49.9	60.2	63.5	65.2	72.1	75.0	77.2	82.9	84.3	84.4	85.3	85.7	86.5	87.3
≥ 500		46.4	49.9	60.2	63.5	65.2	72.1	75.4	77.9	84.7	86.1	86.6	87.8	88.6	89.7	92.3
≥ 400		46.4	49.9	60.2	63.5	65.2	72.1	75.4	77.9	84.9	86.4	87.0	88.4	89.9	92.1	96.6
≥ 300		46.4	49.9	60.2	63.5	65.2	72.1	75.4	77.9	85.1	86.5	87.2	88.6	90.7	93.5	100.0
≥ 200		46.4	49.9	60.2	63.5	65.2	72.1	75.4	77.9	85.1	86.5	87.2	88.6	90.7	93.5	100.0
≥ 100		46.4	49.9	60.2	63.5	65.2	72.1	75.4	77.9	85.1	86.5	87.2	88.6	90.7	93.5	100.0
≥		46.4	49.9	60.2	63.5	65.2	72.1	75.4	77.9	85.1	86.5	87.2	88.6	90.7	93.5	100.0

TOTAL NUMBER OF OBSERVATIONS 756

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/PAC

# CEILING VERSUS VISIBILITY

75521 ALCONBURY RAF UK

74-87

FEB

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0200-1100

CEILING FEET	VISIBILITY: STATUTE MILES OR (HUNDREDS OF METERS)															
	>16	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2
>2000	13.6	14.0	15.5	16.8	17.7	18.4	18.9	19.1	19.2	19.2	19.2	19.4	19.9	20.3	21.5	
2000	16.3	16.9	19.6	21.5	21.7	23.4	24.0	24.2	24.6	24.6	24.9	25.1	25.6	26.7	27.1	
1800	17.2	17.8	20.6	22.5	22.7	24.4	25.0	25.3	25.6	25.6	25.9	26.1	26.6	27.7	28.2	
1600	17.2	17.8	20.6	22.5	22.7	24.4	25.0	25.3	25.6	25.6	25.9	26.1	26.6	27.7	28.2	
1400	17.2	17.8	20.6	22.5	22.7	24.4	25.0	25.3	25.6	25.6	25.9	26.1	26.6	27.7	28.2	
1200	17.3	17.9	21.7	22.6	22.9	24.5	25.1	25.4	25.8	25.8	26.2	26.3	26.8	27.1	28.3	
1000	18.7	19.3	22.2	24.1	24.4	26.7	26.6	26.9	27.3	27.3	27.5	27.8	28.3	28.7	29.8	
800	19.2	19.9	22.9	24.9	25.3	27.0	27.7	27.9	28.3	28.3	28.5	28.8	29.3	29.7	30.8	
600	23.5	24.2	27.4	29.4	29.9	31.7	32.3	32.6	33.0	33.0	33.2	33.5	34.7	34.3	35.5	
400	24.9	25.6	29.0	31.1	31.6	33.3	34.0	34.2	34.6	34.6	34.8	35.1	35.6	36.0	37.1	
200	25.3	26.7	29.5	31.6	32.1	34.7	34.6	34.8	35.2	35.2	35.5	35.7	36.2	36.6	37.8	
100	27.0	27.8	31.3	33.5	34.7	35.9	36.7	37.4	37.4	37.4	37.6	37.9	38.4	39.8	39.9	
50	27.7	28.4	31.9	34.3	35.1	37.0	38.1	38.5	38.9	38.9	39.1	39.4	39.9	47.3	41.4	
25	31.3	31.8	36.2	38.9	39.8	42.0	43.4	43.9	44.3	44.3	44.6	44.8	45.3	45.7	46.8	
12.5	33.3	35.7	40.0	43.2	44.1	46.6	48.0	48.5	48.9	48.9	49.1	49.4	49.9	50.3	51.4	
6.25	35.6	37.4	42.7	46.1	47.2	50.5	52.1	52.7	53.0	53.0	53.3	53.5	54.0	54.4	55.6	
3.125	38.0	39.9	45.3	49.0	50.1	53.5	55.6	56.2	56.7	56.7	56.9	57.2	57.7	58.1	59.2	
1.5625	41.2	43.1	49.9	53.5	54.7	58.6	61.1	61.7	62.5	62.5	62.9	63.3	63.8	64.1	65.3	
0.78125	41.8	43.7	50.5	54.2	55.3	59.2	61.9	62.5	63.4	63.4	63.8	64.1	64.6	65.7	66.2	
0.390625	43.6	45.5	52.4	56.1	57.2	61.2	64.6	65.5	66.8	66.8	67.2	67.6	68.1	69.4	69.6	
0.1953125	45.2	47.5	55.0	59.8	61.2	65.7	69.3	71.7	72.6	72.6	73.1	73.5	74.7	74.4	75.5	
0.09765625	46.3	48.7	57.8	62.5	63.9	68.4	72.3	74.7	75.9	76.7	76.8	77.3	77.8	78.2	79.3	
0.048828125	46.6	49.1	58.3	63.0	64.4	69.1	73.1	74.6	76.5	76.9	78.0	78.7	79.2	79.5	80.7	
0.0244140625	47.0	49.5	58.8	64.0	65.4	70.5	74.5	76.3	78.4	78.8	79.9	80.7	81.2	81.6	82.7	
0.01220703125	47.2	49.7	59.3	65.0	66.4	71.7	75.9	77.8	80.2	80.6	81.7	82.6	83.1	83.5	84.6	
0.006103515625	47.6	50.1	59.8	65.7	67.1	72.7	77.4	79.3	81.8	82.2	83.3	84.5	85.1	85.5	86.7	
0.0030517578125	47.6	50.1	59.8	65.8	67.2	73.1	78.3	80.3	83.5	84.7	85.1	86.4	87.0	87.4	88.9	
0.00152587890625	47.6	50.1	59.8	65.9	67.3	73.7	79.2	81.6	85.0	85.5	86.7	88.7	88.8	89.3	90.8	
0.000762939453125	47.6	50.1	59.8	66.0	67.4	73.9	79.4	82.1	86.0	87.1	88.8	90.2	91.7	92.6	95.5	
0.0003814697265625	47.6	50.1	59.8	66.0	67.4	73.9	79.4	82.1	86.0	87.4	89.0	90.4	92.6	94.4	99.9	
0.00019073486328125	47.6	50.1	59.8	66.0	67.4	73.9	79.4	82.1	86.0	87.4	89.0	90.4	92.6	94.4	100.0	

TOTAL NUMBER OF OBSERVATIONS 792

GLOabal CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION ALCONBURY RAF UK

74-87

FFB

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

10-1-14-20

ELEVATION FEET	VISIBILITY STATUTE MILES															
	210	20	25	24	23	22	21	20	19	18	17	16	15	14	13	12
NO. OF OBS.	16	69	68	66	64	64	63	62	61	60	59	58	57	56	55	54
20000	15.7	16.5	18.2	19.1	19.4	21.5	20.7	20.9	21.1	21.1	21.1	21.1	21.2	21.2	21.5	
18000	21.0	21.2	24.4	25.6	25.8	27.4	27.6	27.9	28.0	28.0	28.0	28.0	28.1	28.1	28.5	
16000	21.5	21.8	25.1	26.3	26.6	28.1	28.3	28.6	28.7	28.7	28.7	28.7	28.8	28.8	29.2	
14000	21.5	21.8	25.1	26.3	26.6	28.1	28.3	28.6	28.7	28.7	28.7	28.7	28.8	28.8	29.2	
12000	21.5	21.8	25.1	26.3	26.6	28.1	28.3	28.6	28.7	28.7	28.7	28.7	28.8	28.8	29.2	
10000	21.5	21.8	25.1	26.3	26.6	28.1	28.3	28.6	28.7	28.7	28.7	28.7	28.8	28.8	29.2	
8000	21.5	21.8	25.1	26.3	26.6	28.1	28.3	28.6	28.7	28.7	28.7	28.7	28.8	28.8	29.2	
6000	21.5	21.8	25.1	26.3	26.6	28.1	28.3	28.6	28.7	28.7	28.7	28.7	28.8	28.8	29.2	
4000	21.5	21.8	25.1	26.3	26.6	28.1	28.3	28.6	28.7	28.7	28.7	28.7	28.8	28.8	29.2	
2000	21.5	21.8	25.1	26.3	26.6	28.1	28.3	28.6	28.7	28.7	28.7	28.7	28.8	28.8	29.2	
0	21.5	21.8	25.1	26.3	26.6	28.1	28.3	28.6	28.7	28.7	28.7	28.7	28.8	28.8	29.2	
20000	21.5	21.8	25.1	26.3	26.6	28.1	28.3	28.6	28.7	28.7	28.7	28.7	28.8	28.8	29.2	
18000	21.5	21.8	25.1	26.3	26.6	28.1	28.3	28.6	28.7	28.7	28.7	28.7	28.8	28.8	29.2	
16000	21.5	21.8	25.1	26.3	26.6	28.1	28.3	28.6	28.7	28.7	28.7	28.7	28.8	28.8	29.2	
14000	21.5	21.8	25.1	26.3	26.6	28.1	28.3	28.6	28.7	28.7	28.7	28.7	28.8	28.8	29.2	
12000	21.5	21.8	25.1	26.3	26.6	28.1	28.3	28.6	28.7	28.7	28.7	28.7	28.8	28.8	29.2	
10000	21.5	21.8	25.1	26.3	26.6	28.1	28.3	28.6	28.7	28.7	28.7	28.7	28.8	28.8	29.2	
8000	21.5	21.8	25.1	26.3	26.6	28.1	28.3	28.6	28.7	28.7	28.7	28.7	28.8	28.8	29.2	
6000	21.5	21.8	25.1	26.3	26.6	28.1	28.3	28.6	28.7	28.7	28.7	28.7	28.8	28.8	29.2	
4000	21.5	21.8	25.1	26.3	26.6	28.1	28.3	28.6	28.7	28.7	28.7	28.7	28.8	28.8	29.2	
2000	21.5	21.8	25.1	26.3	26.6	28.1	28.3	28.6	28.7	28.7	28.7	28.7	28.8	28.8	29.2	
0	21.5	21.8	25.1	26.3	26.6	28.1	28.3	28.6	28.7	28.7	28.7	28.7	28.8	28.8	29.2	
20000	21.5	21.8	25.1	26.3	26.6	28.1	28.3	28.6	28.7	28.7	28.7	28.7	28.8	28.8	29.2	
18000	21.5	21.8	25.1	26.3	26.6	28.1	28.3	28.6	28.7	28.7	28.7	28.7	28.8	28.8	29.2	
16000	21.5	21.8	25.1	26.3	26.6	28.1	28.3	28.6	28.7	28.7	28.7	28.7	28.8	28.8	29.2	
14000	21.5	21.8	25.1	26.3	26.6	28.1	28.3	28.6	28.7	28.7	28.7	28.7	28.8	28.8	29.2	
12000	21.5	21.8	25.1	26.3	26.6	28.1	28.3	28.6	28.7	28.7	28.7	28.7	28.8	28.8	29.2	
10000	21.5	21.8	25.1	26.3	26.6	28.1	28.3	28.6	28.7	28.7	28.7	28.7	28.8	28.8	29.2	
8000	21.5	21.8	25.1	26.3	26.6	28.1	28.3	28.6	28.7	28.7	28.7	28.7	28.8	28.8	29.2	
6000	21.5	21.8	25.1	26.3	26.6	28.1	28.3	28.6	28.7	28.7	28.7	28.7	28.8	28.8	29.2	
4000	21.5	21.8	25.1	26.3	26.6	28.1	28.3	28.6	28.7	28.7	28.7	28.7	28.8	28.8	29.2	
2000	21.5	21.8	25.1	26.3	26.6	28.1	28.3	28.6	28.7	28.7	28.7	28.7	28.8	28.8	29.2	
0	21.5	21.8	25.1	26.3	26.6	28.1	28.3	28.6	28.7	28.7	28.7	28.7	28.8	28.8	29.2	

TOTAL NUMBER OF OBSERVATIONS 836

USAF ETAC D-14-5 (DL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/PAC

# CEILING VERSUS VISIBILITY

15621  
STATION

ALCONBURY RAF UK  
STATION NAME

74-87  
YEAR

FEF  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700  
HOURS

CEILING FEET	VISIBILITY: STATUTE MILES OR (HUNDREDS OF METERS)															
	≥10 >16	≥6 GE95	≥5 GE80	≥4 GE60	≥3 GE48	≥2.5 GE40	≥2 GE32	≥1.5 GE24	≥1 GE16	≥0.5 GE10	≥0.25 GE08	≥0.15 GE06	≥0.1 GE04	≥0.05 GE03	≥0.025 GE02	≥0.01 GE01
≥10000	16.1	17.0	19.2	21.0	21.2	21.1	22.2	22.2	22.3	22.3	22.3	22.3	22.3	22.3	22.5	22.5
≥8000	22.8	24.0	27.5	29.4	28.7	30.1	31.3	31.3	31.4	31.4	31.4	31.4	31.5	31.5	31.5	31.5
≥6000	22.8	24.0	27.5	28.6	28.8	30.3	31.5	31.5	31.7	31.7	31.7	31.7	31.8	31.8	31.8	31.8
≥4000	22.8	24.0	27.5	28.6	28.8	30.3	31.5	31.5	31.7	31.7	31.7	31.7	31.8	31.8	31.8	31.8
≥3000	22.8	24.0	27.5	28.6	28.8	30.3	31.5	31.5	31.7	31.7	31.7	31.7	31.8	31.8	31.8	31.8
≥2000	22.8	24.0	27.5	28.6	28.8	30.3	31.5	31.5	31.7	31.7	31.7	31.7	31.8	31.8	31.8	31.8
≥1500	22.8	24.0	27.5	28.6	28.8	30.3	31.5	31.5	31.7	31.7	31.7	31.7	31.8	31.8	31.8	31.8
≥1000	22.8	24.0	27.5	28.6	28.8	30.3	31.5	31.5	31.7	31.7	31.7	31.7	31.8	31.8	31.8	31.8
≥800	22.8	24.0	27.5	28.6	28.8	30.3	31.5	31.5	31.7	31.7	31.7	31.7	31.8	31.8	31.8	31.8
≥600	22.8	24.0	27.5	28.6	28.8	30.3	31.5	31.5	31.7	31.7	31.7	31.7	31.8	31.8	31.8	31.8
≥500	22.8	24.0	27.5	28.6	28.8	30.3	31.5	31.5	31.7	31.7	31.7	31.7	31.8	31.8	31.8	31.8
≥400	22.8	24.0	27.5	28.6	28.8	30.3	31.5	31.5	31.7	31.7	31.7	31.7	31.8	31.8	31.8	31.8
≥300	22.8	24.0	27.5	28.6	28.8	30.3	31.5	31.5	31.7	31.7	31.7	31.7	31.8	31.8	31.8	31.8
≥200	22.8	24.0	27.5	28.6	28.8	30.3	31.5	31.5	31.7	31.7	31.7	31.7	31.8	31.8	31.8	31.8
≥100	22.8	24.0	27.5	28.6	28.8	30.3	31.5	31.5	31.7	31.7	31.7	31.7	31.8	31.8	31.8	31.8
≥50	22.8	24.0	27.5	28.6	28.8	30.3	31.5	31.5	31.7	31.7	31.7	31.7	31.8	31.8	31.8	31.8
≥20	22.8	24.0	27.5	28.6	28.8	30.3	31.5	31.5	31.7	31.7	31.7	31.7	31.8	31.8	31.8	31.8
≥10	22.8	24.0	27.5	28.6	28.8	30.3	31.5	31.5	31.7	31.7	31.7	31.7	31.8	31.8	31.8	31.8
≥5	22.8	24.0	27.5	28.6	28.8	30.3	31.5	31.5	31.7	31.7	31.7	31.7	31.8	31.8	31.8	31.8
≥2	22.8	24.0	27.5	28.6	28.8	30.3	31.5	31.5	31.7	31.7	31.7	31.7	31.8	31.8	31.8	31.8
≥1	22.8	24.0	27.5	28.6	28.8	30.3	31.5	31.5	31.7	31.7	31.7	31.7	31.8	31.8	31.8	31.8

TOTAL NUMBER OF OBSERVATIONS 637

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIP WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

75621

ALCONBURY RAF UK

74-83

FEB

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1800-2300  
HOURS

CEILING FEET	VISIBILITY STATUTE MILES OR (HUNDREDS OF METERS)																		
	≥10	20	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	≥1
≥20000	21.1	27.7	25.2	26.2	26.2	27.4	29.4	29.5	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	30.1
≥18000	25.0	27.0	30.1	31.5	31.8	33.6	35.6	35.7	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	36.3
≥16000	25.0	27.0	30.1	31.5	31.8	33.6	35.6	35.7	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	36.3
≥14000	25.0	27.0	30.1	31.5	31.8	33.6	35.6	35.7	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	36.3
≥12000	25.0	27.0	30.1	31.5	31.8	33.6	35.6	35.7	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	36.3
≥10000	25.0	27.0	30.1	31.5	31.8	33.6	35.6	35.7	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	36.3
≥8000	25.0	27.0	30.1	31.5	31.8	33.6	35.6	35.7	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	36.3
≥6000	25.0	27.0	30.1	31.5	31.8	33.6	35.6	35.7	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	36.3
≥4500	25.0	27.0	30.1	31.5	31.8	33.6	35.6	35.7	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	36.3
≥4000	25.0	27.0	30.1	31.5	31.8	33.6	35.6	35.7	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	36.3
≥3500	25.0	27.0	30.1	31.5	31.8	33.6	35.6	35.7	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	36.3
≥3000	25.0	27.0	30.1	31.5	31.8	33.6	35.6	35.7	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	36.3
≥2500	25.0	27.0	30.1	31.5	31.8	33.6	35.6	35.7	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	36.3
≥2000	25.0	27.0	30.1	31.5	31.8	33.6	35.6	35.7	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	36.3
≥1800	25.0	27.0	30.1	31.5	31.8	33.6	35.6	35.7	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	36.3
≥1600	25.0	27.0	30.1	31.5	31.8	33.6	35.6	35.7	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	36.3
≥1400	25.0	27.0	30.1	31.5	31.8	33.6	35.6	35.7	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	36.3
≥1200	25.0	27.0	30.1	31.5	31.8	33.6	35.6	35.7	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	36.3
≥1000	25.0	27.0	30.1	31.5	31.8	33.6	35.6	35.7	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	36.3
≥900	25.0	27.0	30.1	31.5	31.8	33.6	35.6	35.7	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	36.3
≥800	25.0	27.0	30.1	31.5	31.8	33.6	35.6	35.7	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	36.3
≥700	25.0	27.0	30.1	31.5	31.8	33.6	35.6	35.7	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	36.3
≥600	25.0	27.0	30.1	31.5	31.8	33.6	35.6	35.7	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	36.3
≥500	25.0	27.0	30.1	31.5	31.8	33.6	35.6	35.7	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	36.3
≥400	25.0	27.0	30.1	31.5	31.8	33.6	35.6	35.7	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	36.3
≥300	25.0	27.0	30.1	31.5	31.8	33.6	35.6	35.7	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	36.3
≥200	25.0	27.0	30.1	31.5	31.8	33.6	35.6	35.7	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	36.3
≥100	25.0	27.0	30.1	31.5	31.8	33.6	35.6	35.7	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	36.3
≥50	25.0	27.0	30.1	31.5	31.8	33.6	35.6	35.7	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	36.3
≥20	25.0	27.0	30.1	31.5	31.8	33.6	35.6	35.7	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	36.3

TOTAL NUMBER OF OBSERVATIONS 705

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION

ALCONBURY RAF UK

74-87

YEARS

FEET

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300  
HOURS

CEILING FEET	VISIBILITY STATUTE MILES OR (HUNDREDS OF METERS)															
	>10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
20000	22.8	25.3	28.3	31.2	34.5	31.8	32.8	32.9	33.1	33.2	33.4	33.5	33.7	33.8	34.0	34.0
18000	25.3	27.8	31.3	33.7	34.1	35.7	36.7	36.9	37.0	37.2	37.3	37.5	37.6	37.8	37.9	37.9
16000	25.3	27.8	31.3	33.7	34.1	35.7	36.7	36.9	37.0	37.2	37.3	37.5	37.6	37.8	37.9	37.9
14000	25.3	27.8	31.3	33.7	34.1	35.7	36.7	36.9	37.0	37.2	37.3	37.5	37.6	37.8	37.9	37.9
12000	25.3	27.8	31.3	33.7	34.1	35.7	36.7	36.9	37.0	37.2	37.3	37.5	37.6	37.8	37.9	37.9
10000	25.6	28.1	31.6	34.4	35.0	36.7	37.8	37.9	38.1	38.2	38.4	38.5	38.7	38.8	38.9	38.9
8000	25.9	28.4	31.9	34.7	35.3	37.0	38.1	38.2	38.4	38.5	38.7	38.8	38.9	39.1	39.2	39.2
6000	28.4	31.2	35.1	38.4	39.1	41.1	42.2	42.6	42.8	42.9	43.0	43.2	43.3	43.5	43.6	43.6
4000	28.7	31.5	35.6	38.8	39.5	41.6	42.8	43.2	43.3	43.5	43.6	43.8	43.9	44.1	44.2	44.2
2000	28.8	31.9	36.0	39.2	40.0	42.0	43.2	43.6	43.8	43.9	44.1	44.2	44.4	44.5	44.7	44.7
1000	29.7	32.9	37.0	40.3	41.0	43.0	44.2	44.7	44.8	44.9	45.1	45.2	45.4	45.5	45.7	45.7
500	30.7	34.0	39.1	42.3	43.0	45.5	46.7	47.1	47.3	47.4	47.6	47.7	47.9	48.0	48.2	48.2
200	35.6	38.4	44.4	47.9	48.6	51.4	52.6	53.0	53.4	53.6	53.7	53.9	54.0	54.2	54.3	54.3
100	36.7	40.1	46.3	49.8	50.5	53.3	55.2	55.6	56.1	56.2	56.4	56.5	56.7	56.8	57.0	57.0
50	39.5	43.7	49.2	52.9	53.7	56.5	58.4	58.9	59.3	59.4	59.6	59.7	59.9	60.0	60.2	60.2
25	43.0	46.7	53.4	57.2	58.9	61.9	63.8	64.3	64.7	64.9	65.0	65.2	65.3	65.4	65.6	65.6
10	47.0	51.4	59.0	63.5	65.2	68.7	71.4	71.9	72.3	72.5	72.6	72.8	72.9	73.1	73.2	73.2
5	48.0	52.6	60.3	64.9	66.5	70.1	73.4	73.8	74.2	74.4	74.5	74.7	74.8	75.0	75.1	75.1
2	49.6	54.7	63.1	67.8	69.4	73.2	76.6	77.2	77.7	77.9	78.0	78.3	78.5	78.8	78.9	78.9
1	51.5	56.7	66.3	71.0	72.6	76.9	80.5	81.3	82.0	82.1	82.3	82.6	82.7	83.0	83.2	83.2
0.5	52.9	58.6	69.0	74.1	75.7	80.2	84.0	84.9	85.7	85.8	85.9	86.2	86.4	86.7	86.8	86.8
0.2	52.9	58.6	69.3	74.4	76.0	80.5	85.1	85.9	86.7	86.8	87.0	87.3	87.4	87.7	87.8	87.8
0.1	53.3	59.0	69.8	75.3	76.9	81.6	86.2	87.4	88.1	88.3	88.4	88.7	88.9	89.2	89.3	89.3
0.05	53.6	59.4	70.3	75.8	77.6	82.3	87.1	88.7	89.6	89.8	89.9	90.2	90.3	90.6	90.8	90.8
0.02	53.6	59.4	70.3	76.0	77.7	82.4	87.4	89.0	90.0	90.2	90.5	90.9	91.1	91.4	91.5	91.5
0.01	53.6	59.4	70.3	76.1	77.9	82.7	87.7	89.3	90.3	90.5	90.8	91.4	91.9	92.2	92.4	92.4
0.005	53.6	59.4	70.3	76.3	78.0	83.3	88.9	90.5	91.7	91.8	92.2	92.8	93.6	93.9	94.0	94.0
0.002	53.6	59.4	70.3	76.3	78.0	83.5	89.2	91.5	93.0	93.1	93.7	94.6	95.5	95.8	96.2	96.2
0.001	53.6	59.4	70.3	76.3	78.0	83.5	89.2	91.7	93.1	93.3	94.0	95.3	96.5	97.2	98.5	98.5
0.0005	53.6	59.4	70.3	76.3	78.0	83.5	89.2	91.7	93.1	93.4	94.1	95.5	96.9	98.1	100.0	100.0
0.0002	53.6	59.4	70.3	76.3	78.0	83.5	89.2	91.7	93.1	93.4	94.1	95.5	96.9	98.1	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 683

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

76621 ALCONBURY RAF UK

74-83

FFP

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL

CEILING FEET	VISIBILITY: STATUTE MILES OR (HUNDREDS OF METERS)															
	210	20	25	24	23	22	27	210	21	21	24	24	27	2516	24	20
210	21.6	21.9	21.8	21.4	22.4	22.7	21.9	24.7	24.9	25.3	25.4	25.4	25.7	25.8	26.4	26.4
2000	21.2	22.5	26.4	27.3	27.7	29.3	30.1	30.4	30.8	30.8	30.9	30.9	31.2	31.3	31.9	31.9
1800	21.4	22.9	26.4	27.7	28.0	29.6	30.5	30.7	31.1	31.2	31.2	31.3	31.5	31.7	32.2	32.2
1600	21.4	22.8	26.4	27.7	28.0	29.6	30.5	30.7	31.1	31.2	31.2	31.3	31.5	31.7	32.2	32.2
1400	21.5	22.8	26.4	27.7	28.0	29.7	30.5	30.7	31.2	31.2	31.3	31.3	31.5	31.7	32.3	32.3
1200	21.6	22.9	26.5	27.8	28.1	29.8	30.6	30.9	31.3	31.3	31.4	31.4	31.7	31.8	32.4	32.4
1000	23.0	24.5	28.1	29.5	30.0	31.7	32.5	32.8	33.2	33.2	33.3	33.3	33.6	33.7	34.3	34.3
900	23.5	25.0	28.7	30.2	30.6	32.3	33.2	33.4	33.9	33.9	34.0	34.0	34.2	34.4	35.0	35.0
800	26.1	27.8	31.9	33.5	34.0	36.0	36.8	37.1	37.6	37.6	37.7	37.8	38.0	38.1	38.7	38.7
700	26.8	28.4	32.7	34.3	34.8	36.8	37.7	38.0	38.4	38.5	38.5	38.6	38.8	39.0	39.6	39.6
600	27.0	28.7	33.1	34.8	35.3	37.3	38.2	38.5	39.0	39.0	39.1	39.2	39.4	39.5	40.1	40.1
500	28.2	30.0	34.6	36.2	36.8	38.8	39.7	40.0	40.5	40.5	40.6	40.7	40.9	41.0	41.6	41.6
4500	29.5	31.4	36.3	38.1	38.7	40.9	42.0	42.3	42.8	42.8	42.9	42.9	43.2	43.3	43.9	43.9
4000	32.6	34.8	40.4	42.3	43.0	45.6	46.7	47.0	47.6	47.7	47.7	47.8	48.0	48.2	48.8	48.8
3500	35.7	38.0	44.1	46.3	47.0	49.8	51.3	51.7	52.3	52.4	52.5	52.5	52.8	52.9	53.5	53.5
3000	39.1	41.7	48.4	50.8	51.6	54.6	56.3	56.7	57.4	57.5	57.5	57.6	57.8	58.0	58.6	58.6
2500	41.9	44.7	51.9	54.5	55.5	58.8	60.8	61.3	62.2	62.2	62.3	62.4	62.6	62.8	63.4	63.4
2000	45.2	48.3	56.4	59.3	60.4	64.0	66.3	66.9	67.9	68.0	68.1	68.2	68.5	68.6	69.2	69.2
1800	46.0	49.2	57.4	60.4	61.5	65.1	67.6	68.2	69.2	69.3	69.4	69.5	69.8	70.0	70.6	70.6
1600	48.1	51.7	60.6	63.8	64.9	68.9	71.7	72.4	73.6	73.7	73.8	73.9	74.2	74.3	74.9	74.9
1400	50.1	54.0	64.0	67.5	68.6	73.1	76.3	77.2	78.7	78.9	79.0	79.1	79.4	79.6	80.2	80.2
1200	51.1	55.2	65.8	69.5	70.7	75.5	78.8	79.8	81.4	81.7	81.8	82.1	82.3	82.5	83.1	83.1
1000	51.3	55.5	66.3	70.0	71.3	76.2	79.6	80.6	82.3	82.6	82.9	83.1	83.4	83.6	84.2	84.2
900	51.6	55.8	67.0	71.0	72.3	77.5	81.2	82.3	84.1	84.5	84.7	85.0	85.3	85.5	86.1	86.1
800	51.9	56.2	67.7	71.9	73.3	78.7	82.6	83.9	85.9	86.2	86.5	86.8	87.2	87.4	88.0	88.0
700	52.0	56.4	68.0	72.3	73.7	79.2	83.5	84.9	87.2	87.6	87.9	88.3	88.7	88.9	89.5	89.5
600	52.1	56.4	68.1	72.5	74.0	79.7	84.1	85.6	88.2	88.7	89.2	89.7	90.2	90.4	91.2	91.2
500	52.1	56.4	68.1	72.6	74.1	80.1	84.7	86.4	89.2	89.9	90.4	91.0	91.6	91.9	92.7	92.7
400	52.1	56.4	68.1	72.6	74.2	80.2	85.0	87.0	90.6	91.6	92.5	93.4	94.4	95.4	96.4	96.4
300	52.1	56.4	68.1	72.6	74.2	80.2	85.0	87.0	90.6	91.6	92.5	93.5	94.5	95.5	96.5	96.5
200	52.1	56.4	68.1	72.6	74.2	80.2	85.0	87.0	90.6	91.6	92.5	93.5	94.5	95.5	96.5	96.5
100	52.1	56.4	68.1	72.6	74.2	80.2	85.0	87.0	90.6	91.6	92.5	93.5	94.5	95.5	96.5	96.5
0	52.1	56.4	68.1	72.6	74.2	80.2	85.0	87.0	90.6	91.6	92.5	93.5	94.5	95.5	96.5	96.5

TOTAL NUMBER OF OBSERVATIONS 5688

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIP WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

35621  
STATION

ALCONBURY RAF UK  
STATION NAME

74-80, E2-03  
YEARS

MAJ  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

000-7200  
HOURS (LT)

CEILING FEET	VISIBILITY STATUTE MILES OR (HUNDREDS OF METERS)															
	≥10	20	25	24	23	22	21	20	19	18	17	16	15	14	13	12
NO. CEILING		30.7	32.7	36.1	36.5	37.7	38.1	38.3	38.6	39.2	39.2	39.2	39.5	39.5	39.7	39.7
≥ 20000		33.0	35.0	39.2	39.7	40.1	41.5	42.2	42.4	43.3	43.3	43.3	43.5	43.5	43.7	43.7
≥ 18000		33.0	35.0	39.5	39.9	40.4	41.7	42.4	42.6	43.5	43.5	43.5	43.7	43.7	43.9	43.9
≥ 16000		33.0	35.0	39.5	39.9	40.4	41.7	42.4	42.6	43.5	43.5	43.5	43.7	43.7	43.9	43.9
≥ 14000		33.0	35.0	39.5	39.9	40.4	41.7	42.4	42.6	43.5	43.5	43.5	43.7	43.7	43.9	43.9
≥ 12000		33.0	35.0	39.5	39.9	40.4	41.7	42.4	42.6	43.5	43.5	43.5	43.7	43.7	43.9	43.9
≥ 10000		33.2	35.2	39.7	40.1	40.6	41.9	42.6	42.8	43.7	43.7	43.7	43.9	43.9	44.2	44.2
≥ 9000		33.2	35.2	39.7	40.1	40.6	41.9	42.6	42.8	43.7	43.7	43.7	43.9	43.9	44.2	44.2
≥ 8000		35.2	37.2	41.9	42.6	43.0	44.6	45.3	45.5	46.4	46.4	46.4	46.6	46.6	46.9	46.9
≥ 7000		35.2	37.2	41.9	42.6	43.0	44.6	45.3	45.5	46.4	46.4	46.4	46.6	46.6	46.9	46.9
≥ 6000		35.2	37.2	41.9	42.6	43.0	44.6	45.3	45.5	46.4	46.4	46.4	46.6	46.6	46.9	46.9
≥ 5000		36.8	38.9	43.7	44.4	44.8	46.4	47.1	47.3	48.2	48.2	48.2	48.4	48.4	48.7	48.7
≥ 4500		39.2	41.3	46.6	47.8	48.2	49.8	50.7	50.9	51.8	51.8	51.8	52.7	52.7	52.7	52.7
≥ 4000		41.5	43.5	48.9	50.4	50.9	52.5	53.4	53.6	54.5	54.5	54.5	54.7	54.7	54.9	54.9
≥ 3500		45.5	48.2	54.5	56.5	57.7	58.7	59.6	59.9	60.8	60.8	60.8	61.0	61.0	61.2	61.2
≥ 3000		48.9	52.7	58.5	60.8	61.4	63.7	64.1	64.3	65.2	65.2	65.2	65.5	65.5	65.7	65.7
≥ 2500		51.1	54.3	61.7	64.1	64.8	66.6	67.5	67.7	68.8	68.8	68.8	69.1	69.1	69.3	69.3
≥ 2000		53.1	56.5	64.8	67.3	67.9	69.7	70.6	71.7	72.4	72.4	72.4	72.6	72.6	72.9	72.9
≥ 1800		54.3	57.6	65.9	68.4	69.1	71.1	72.0	72.6	73.8	73.8	73.8	74.7	74.7	74.2	74.2
≥ 1500		56.1	59.6	68.4	71.3	72.0	74.0	74.9	75.6	76.7	76.7	76.7	76.9	76.9	77.1	77.1
≥ 1200		58.5	62.1	71.3	74.2	75.1	77.1	78.0	78.7	79.8	79.8	79.8	80.0	80.0	80.3	80.3
≥ 1000		60.1	63.7	72.9	76.7	76.9	78.9	79.8	80.5	81.6	81.6	81.6	81.8	81.8	82.1	82.1
≥ 900		60.1	63.7	72.9	76.7	76.9	78.9	79.8	80.5	81.6	81.6	81.6	81.8	81.8	82.1	82.1
≥ 800		60.5	64.3	74.0	77.4	78.3	80.5	82.5	83.4	85.2	85.2	85.2	85.4	85.4	85.7	85.7
≥ 700		61.0	64.8	74.4	77.8	78.7	81.2	83.9	84.8	86.5	86.5	86.5	86.8	86.8	87.0	87.4
≥ 600		61.2	65.7	75.3	78.7	79.6	82.1	86.3	87.4	89.7	89.7	89.7	89.9	89.9	90.1	90.4
≥ 500		61.2	65.0	76.0	79.4	80.7	83.6	88.3	90.4	93.3	93.5	93.5	93.7	93.9	94.2	94.4
≥ 400		61.2	65.0	76.2	79.6	80.9	84.5	89.7	91.7	94.6	94.8	94.8	95.1	95.3	95.5	95.7
≥ 300		61.2	65.0	76.5	79.8	81.2	84.8	89.9	91.9	94.8	95.1	95.1	95.7	96.2	96.4	96.6
≥ 200		61.2	65.7	76.5	79.8	81.2	85.0	90.1	92.4	95.5	96.0	96.4	97.1	97.8	98.7	99.3
≥ 100		61.2	65.7	76.5	79.8	81.2	85.7	90.1	92.4	95.5	96.0	96.9	97.5	98.4	99.3	100.0
≥ 0		61.2	65.0	76.5	79.6	81.2	85.7	90.1	92.4	95.5	96.0	96.9	97.5	98.4	99.3	100.0

TOTAL NUMBER OF OBSERVATIONS 486

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

75521

ALCONBURY RAF UK

74-83

MAP

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

100-0500  
COUNT

CEILING FEET	VISIBILITY: STATUTE MILES OR (HUNDREDS OF METERS)															
	210	20	25	24	23	22	27	21	21	21	24	24	21	2516	24	20
20000	29.4	31.0	34.6	35.1	35.4	36.5	37.2	37.7	37.9	37.9	38.3	39.3	38.4	38.8	39.6	39.6
18000	32.3	34.2	38.3	39.1	39.6	40.7	41.6	42.1	42.7	42.7	43.5	43.7	43.2	43.6	44.3	44.3
16000	32.4	34.4	38.4	39.2	39.7	40.9	41.8	42.3	42.8	42.8	43.2	43.2	43.3	43.7	44.4	44.4
14000	32.4	34.4	38.4	39.2	39.7	40.9	41.8	42.3	42.8	42.8	43.2	43.2	43.3	43.7	44.4	44.4
12000	32.4	34.4	38.4	39.2	39.7	40.9	41.8	42.3	42.8	42.8	43.2	43.2	43.3	43.7	44.4	44.4
10000	33.7	37.8	39.8	40.6	41.1	42.3	43.3	43.8	44.3	44.3	44.7	44.7	44.8	45.2	46.0	46.0
8000	34.1	36.1	41.2	41.6	41.5	42.7	43.7	44.2	44.7	44.7	45.1	45.1	45.2	45.6	46.4	46.4
6000	37.0	39.2	43.3	44.1	44.6	45.8	46.9	47.4	47.9	47.9	48.3	48.3	48.4	48.9	49.7	49.7
4000	37.0	39.2	43.3	44.1	44.6	45.8	46.9	47.4	47.9	47.9	48.3	48.3	48.4	48.9	49.7	49.7
2000	37.2	39.3	43.4	44.2	44.7	46.7	47.0	47.5	48.0	48.0	48.4	48.5	48.7	49.2	49.9	49.9
1000	38.1	40.2	44.4	45.5	46.0	47.3	48.5	49.0	49.6	49.6	49.9	50.1	50.2	50.7	51.5	51.5
500	41.9	43.7	47.4	48.5	49.3	50.6	51.9	52.4	52.9	52.9	53.3	53.4	53.5	54.0	54.8	54.8
200	44.4	46.6	51.2	52.4	53.1	54.4	55.7	56.2	56.7	56.7	57.1	57.2	57.3	57.9	58.6	58.6
100	47.1	49.7	54.5	56.1	56.6	58.1	59.4	59.9	60.4	60.4	60.8	60.9	61.0	61.6	62.3	62.3
50	51.3	54.0	59.0	60.7	61.4	62.7	64.0	64.5	65.0	65.0	65.4	65.5	65.6	66.2	66.9	66.9
20	53.6	56.3	61.6	63.3	64.1	65.6	67.2	67.7	68.2	68.2	68.6	68.7	68.8	69.3	70.1	70.1
10	56.4	59.1	65.6	67.6	68.3	70.1	71.9	72.4	73.1	73.1	73.4	73.6	73.7	74.2	75.0	75.0
5	57.1	59.8	66.4	68.5	69.2	71.7	72.8	73.3	73.9	73.9	74.3	74.5	74.6	75.1	75.9	75.9
2	58.6	61.6	69.3	71.4	72.2	74.1	76.0	76.5	77.1	77.1	77.5	77.7	77.8	78.3	79.1	79.1
1	61.5	63.5	71.8	74.5	75.2	77.1	79.1	79.6	81.2	81.2	81.6	81.7	81.8	82.1	82.1	82.1
0.5	62.3	65.3	73.8	76.6	77.4	79.4	81.4	81.9	82.8	82.8	83.1	83.3	83.4	83.9	84.7	84.7
0.2	62.7	65.6	74.3	77.3	78.0	80.1	82.0	82.6	83.7	83.7	84.2	84.3	84.4	84.9	85.7	85.7
0.1	62.7	65.6	74.3	77.5	78.4	80.7	82.9	83.5	84.5	84.5	85.1	85.2	85.3	85.8	86.6	86.6
0.05	63.3	66.4	75.7	79.3	80.5	83.8	87.7	88.6	90.2	90.3	90.8	91.1	91.4	92.2	93.0	93.0
0.02	63.3	66.4	75.7	79.3	80.5	83.8	87.7	88.6	90.2	90.3	90.8	91.1	91.4	92.2	93.0	93.0
0.01	63.3	66.4	75.7	79.3	80.5	83.8	87.7	88.6	90.2	90.3	90.8	91.1	91.4	92.2	93.0	93.0
0.005	63.3	66.4	75.7	79.3	80.5	83.8	87.7	88.6	90.2	90.3	90.8	91.1	91.4	92.2	93.0	93.0
0.002	63.3	66.4	75.7	79.3	80.5	83.8	87.7	88.6	90.2	90.3	90.8	91.1	91.4	92.2	93.0	93.0
0.001	63.3	66.4	75.7	79.3	80.5	83.8	87.7	88.6	90.2	90.3	90.8	91.1	91.4	92.2	93.0	93.0
0.0005	63.3	66.4	75.7	79.3	80.5	83.8	87.7	88.6	90.2	90.3	90.8	91.1	91.4	92.2	93.0	93.0
0.0002	63.3	66.4	75.7	79.3	80.5	83.8	87.7	88.6	90.2	90.3	90.8	91.1	91.4	92.2	93.0	93.0
0.0001	63.3	66.4	75.7	79.3	80.5	83.8	87.7	88.6	90.2	90.3	90.8	91.1	91.4	92.2	93.0	93.0

TOTAL NUMBER OF OBSERVATIONS 783

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AFW WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

FEET  
STATION

ALCONBURY RAF UK  
STATION NAME

74-87  
YEARS

MAP  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

600-7800  
HOURS

CEILING FEET	VISIBILITY - STATUTE MILES															
	>10	≥10	≥9	≥8	≥7	≥6	≥5	≥4	≥3	≥2	≥1	≥1/2	≥1/4	≥1/8	≥1/16	≥1/32
NO. CEILING		GE90	GE80	GE60	GE40	GE20	GE10	GE5	GE2	GE1	GE1/2	GE1/4	GE1/8	GE1/16	GE1/32	GE1/64
≥ 20000		19.8	20.7	23.4	24.7	25.1	26.1	26.9	27.2	27.6	27.6	27.7	27.7	27.8	28.3	29.1
≥ 18000		24.5	26.3	29.8	31.4	31.9	33.5	34.3	34.6	35.1	35.3	35.5	35.5	35.7	36.2	37.0
≥ 16000		24.5	26.3	29.8	31.4	31.9	33.5	34.3	34.6	35.1	35.3	35.5	35.5	35.7	36.2	37.0
≥ 14000		24.6	26.4	29.9	31.6	32.1	33.6	34.4	34.7	35.2	35.5	35.6	35.6	35.8	36.3	37.1
≥ 12000		24.9	26.9	30.4	32.0	32.5	34.0	34.9	35.2	35.7	35.9	36.0	36.0	36.3	36.7	37.6
≥ 10000		27.2	29.2	32.7	34.4	34.9	36.4	37.2	37.6	38.0	38.3	38.4	38.4	38.6	39.1	39.9
≥ 9000		27.7	29.7	33.3	35.0	35.5	37.0	37.8	38.2	38.6	38.9	39.0	39.0	39.2	39.7	40.5
≥ 8000		31.6	33.6	37.2	39.1	39.6	41.2	42.2	42.5	43.0	43.2	43.3	43.3	43.6	44.1	44.9
≥ 7000		31.8	33.8	37.7	39.6	40.0	41.7	42.8	43.1	43.6	43.8	43.9	44.1	44.3	44.8	45.6
≥ 6000		31.9	33.9	37.8	39.7	40.2	41.9	42.9	43.2	43.7	43.9	44.1	44.2	44.4	44.9	45.7
≥ 5000		33.1	35.1	39.2	41.1	41.7	43.3	44.5	45.0	45.5	45.7	45.8	45.9	46.2	46.6	47.5
≥ 4500		34.0	36.0	41.5	43.3	44.1	45.8	47.1	47.6	48.1	48.3	48.4	48.5	48.8	49.2	50.1
≥ 4000		37.7	39.9	44.5	46.5	47.2	49.0	50.3	50.8	51.2	51.5	51.6	51.7	51.9	52.4	53.2
≥ 3500		39.7	42.1	47.0	49.2	49.9	51.7	53.4	53.9	54.4	54.7	54.8	54.9	55.1	55.6	56.4
≥ 3000		43.3	45.7	50.8	53.0	53.7	55.6	57.4	58.0	58.4	58.7	58.8	58.9	59.1	59.6	60.4
≥ 2500		46.3	48.6	54.5	57.2	58.0	60.0	61.8	62.4	62.9	63.1	63.3	63.4	63.6	64.1	64.9
≥ 2000		50.1	52.5	58.5	61.2	62.0	64.0	66.0	67.5	68.0	68.2	68.3	68.4	68.7	69.1	70.0
≥ 1800		50.1	52.5	58.7	61.4	62.1	64.8	67.0	67.6	68.1	68.3	68.4	68.6	68.8	69.3	70.1
≥ 1600		52.4	55.0	62.5	65.5	66.3	69.3	71.6	72.3	72.8	73.0	73.1	73.3	73.5	74.0	74.8
≥ 1400		53.6	56.5	64.3	67.4	68.3	71.4	74.8	75.6	76.1	76.3	76.4	76.6	76.8	77.3	78.1
≥ 1200		54.5	57.5	65.6	68.7	69.6	72.8	76.3	77.1	77.6	77.9	78.0	78.1	78.3	78.8	79.6
≥ 1000		55.2	58.4	66.7	69.8	70.8	74.0	77.6	78.4	78.9	79.3	79.4	79.6	79.9	80.3	81.2
≥ 900		55.5	58.7	66.9	70.3	71.5	74.8	78.6	79.5	80.0	80.3	80.4	80.7	80.9	81.4	82.2
≥ 800		55.8	59.1	68.2	72.0	73.1	77.3	81.3	82.4	82.9	83.3	83.6	84.0	84.5	85.3	
≥ 700		55.9	59.2	68.3	72.2	73.7	78.4	83.3	84.6	85.2	85.5	85.6	86.0	86.3	86.8	87.6
≥ 600		55.9	59.2	68.4	72.6	74.1	78.8	84.0	85.3	86.0	86.3	86.8	87.4	88.0	88.7	89.5
≥ 500		55.9	59.2	68.6	72.9	74.6	79.3	84.8	86.5	87.6	88.2	88.7	89.4	90.0	91.3	92.2
≥ 400		55.9	59.2	68.6	72.9	74.6	79.3	85.0	86.9	88.7	89.5	90.3	91.4	93.5	94.7	97.1
≥ 300		55.9	59.2	68.6	72.9	74.6	79.3	85.0	87.0	88.9	89.8	90.6	91.9	94.2	95.8	99.2
≥ 200		55.9	59.2	68.6	72.9	74.6	79.3	85.0	87.0	89.0	89.9	90.7	92.0	94.5	96.2	100.0
≥ 100		55.9	59.2	68.6	72.9	74.6	79.3	85.0	87.0	89.0	89.9	90.7	92.0	94.5	96.2	100.0

TOTAL NUMBER OF OBSERVATIONS 889

USAF ETAC FORM 64 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AID WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

75621 ALCONBURY RAF UK

74-87

MAP

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

950-1100  
HOURS

CEILING FEET	VISIBILITY STATUTE MILES																OR IN HUNDREDS OF METERS				
	≥10	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7
≥10000	16.0	16.4	19.1	20.6	20.6	20.9	21.2	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5
8000	23.0	24.0	27.3	29.0	29.0	29.3	29.7	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9
6000	23.1	24.2	27.4	29.1	29.1	29.4	29.8	30.0	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1
4000	23.5	24.5	27.6	29.4	29.4	29.8	30.1	30.3	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
2000	24.6	25.7	29.0	30.7	30.7	31.0	31.3	31.7	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9
1000	26.1	27.3	30.6	32.4	32.4	32.8	33.1	33.5	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7
800	28.1	29.3	33.0	34.9	34.9	35.4	35.7	36.1	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3
600	32.4	33.8	37.5	39.6	39.6	40.1	40.4	40.8	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0
400	32.8	34.3	38.0	40.0	40.0	40.7	41.2	41.7	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0
200	32.9	34.4	38.1	40.1	40.1	40.8	41.3	41.8	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1
100	33.6	35.1	39.0	41.2	41.2	42.7	42.6	43.0	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4
80	35.2	36.6	41.0	43.4	43.5	44.3	44.8	45.3	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
60	39.4	40.5	45.7	48.1	48.2	49.2	49.8	50.2	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6
40	41.0	42.7	47.9	50.2	50.3	51.3	51.9	52.4	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
20	44.4	46.3	52.4	54.9	55.1	56.6	57.3	57.8	58.1	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2
10	47.9	49.8	56.4	59.3	59.6	61.1	61.8	62.7	62.7	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8
8	51.3	53.4	60.6	63.6	63.8	65.4	66.1	66.5	67.0	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
6	52.1	54.2	61.3	64.4	64.6	66.3	67.0	67.4	67.9	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
4	56.2	58.2	66.2	69.3	69.7	71.6	72.5	73.0	73.5	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
2	59.4	61.6	70.2	73.4	73.7	75.8	77.5	78.3	78.9	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0
1	51.5	63.8	73.5	77.3	77.8	81.1	81.8	82.6	83.3	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4
900	62.6	65.1	75.2	79.1	79.6	82.1	83.9	84.8	85.5	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
800	63.7	65.6	76.1	80.6	81.1	83.7	85.5	86.4	87.2	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
700	63.4	66.0	76.6	81.1	81.7	84.7	86.6	87.6	88.8	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
600	62.6	66.2	77.1	81.9	82.5	85.7	88.0	89.2	90.6	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
500	63.6	66.2	77.3	82.4	82.9	86.3	88.7	90.6	92.4	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
400	63.7	66.3	77.5	82.6	83.1	87.1	89.6	91.8	93.7	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
300	63.7	66.3	77.5	82.6	83.1	87.1	89.7	92.1	94.5	95.3	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
200	63.7	66.3	77.5	82.6	83.1	87.1	89.8	92.2	94.6	95.7	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
100	63.7	66.3	77.5	82.6	83.1	87.1	89.8	92.2	94.6	95.7	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
80	63.7	66.3	77.5	82.6	83.1	87.1	89.8	92.2	94.6	95.7	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
60	63.7	66.3	77.5	82.6	83.1	87.1	89.8	92.2	94.6	95.7	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
40	63.7	66.3	77.5	82.6	83.1	87.1	89.8	92.2	94.6	95.7	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
20	63.7	66.3	77.5	82.6	83.1	87.1	89.8	92.2	94.6	95.7	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
10	63.7	66.3	77.5	82.6	83.1	87.1	89.8	92.2	94.6	95.7	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1

TOTAL NUMBER OF OBSERVATIONS 890

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION 35621 ALCONBURY RAF UK

74-87

MAP  
RECORD

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400  
LOCAL TIME

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥10 >10	26 GE97	25 GE80	24 GE61	23 GE48	22 GE40	21 GE32	20 GE24	19 GE2	18 GE16	17 GE12	16 GE10	15 GE08	14 GE075	13 GE04	12 GE0
NO CEILING		18.7	19.5	21.9	21.4	21.4	21.5	21.7	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9
≥20000		25.4	26.5	29.2	29.7	29.7	29.8	30.0	30.1	30.2	30.2	30.2	30.2	30.2	30.2	30.2
≥18000		25.6	26.7	29.4	29.9	29.9	30.0	30.2	30.4	30.5	30.5	30.5	30.5	30.5	30.5	30.5
≥16000		25.6	26.7	29.4	29.9	29.9	30.0	30.2	30.4	30.5	30.5	30.5	30.5	30.5	30.5	30.5
≥14000		25.8	26.9	29.6	30.1	30.1	30.2	30.5	30.6	30.7	30.7	30.7	30.7	30.7	30.7	30.7
≥12000		26.7	27.8	30.5	31.0	31.0	31.1	31.3	31.4	31.5	31.5	31.5	31.5	31.5	31.5	31.5
≥10000		26.4	29.5	32.2	32.7	32.7	32.8	33.3	33.4	33.5	33.5	33.5	33.5	33.5	33.5	33.5
≥9000		29.5	31.7	33.5	34.7	34.7	34.1	34.6	34.7	34.8	34.8	34.8	34.8	34.8	34.8	34.8
≥8000		33.2	34.3	37.1	37.8	37.8	37.9	38.3	38.4	38.5	38.5	38.5	38.5	38.5	38.5	38.5
≥7000		33.6	35.3	38.2	38.9	38.9	39.7	39.5	39.6	39.7	39.7	39.7	39.7	39.7	39.7	39.7
≥6000		34.1	35.6	38.5	39.2	39.2	39.3	39.8	39.9	40.0	40.0	40.0	40.0	40.0	40.0	40.0
≥5000		35.4	36.9	40.2	40.8	40.8	40.9	41.4	41.6	41.7	41.7	41.7	41.7	41.7	41.7	41.7
≥4500		36.9	38.4	41.9	42.6	42.6	42.8	43.4	43.5	43.6	43.6	43.6	43.6	43.6	43.6	43.6
≥4000		41.8	43.4	46.9	47.9	48.0	48.2	48.8	48.9	49.0	49.0	49.0	49.0	49.0	49.0	49.0
≥3500		47.0	48.9	52.5	53.5	53.6	53.8	54.4	54.5	54.6	54.6	54.6	54.6	54.6	54.6	54.6
≥3000		55.1	56.9	60.9	62.0	62.2	62.4	63.0	63.1	63.2	63.2	63.2	63.2	63.2	63.2	63.2
≥2500		58.2	61.2	64.5	65.7	65.9	66.2	66.7	66.8	67.1	67.1	67.1	67.1	67.1	67.1	67.1
≥2000		63.9	66.2	71.3	72.7	72.9	73.4	74.1	74.2	74.4	74.4	74.4	74.4	74.4	74.4	74.4
≥1800		65.1	67.5	72.9	74.4	74.6	75.1	75.8	75.9	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥1500		69.1	71.9	78.0	79.9	80.2	80.7	81.4	81.5	81.8	81.8	81.8	81.8	81.8	81.8	81.8
≥1200		72.9	75.8	82.7	85.1	85.6	86.3	87.6	87.9	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥1000		74.4	77.4	85.5	88.2	88.8	90.2	91.7	92.0	92.6	92.6	92.6	92.6	92.6	92.6	92.6
≥900		75.3	78.5	86.5	89.2	89.9	91.6	93.4	93.9	94.4	94.4	94.4	94.4	94.4	94.4	94.4
≥800		75.6	78.7	87.0	89.7	90.3	92.0	94.0	94.6	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥700		75.7	79.1	87.5	90.7	91.4	93.1	95.0	96.0	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥600		75.8	79.2	87.8	91.1	91.8	93.8	95.9	96.9	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥500		75.8	79.2	88.1	91.3	92.0	94.3	96.8	97.8	98.9	98.9	99.0	99.2	99.4	99.4	99.4
≥400		75.8	79.3	88.2	91.4	92.1	94.4	96.9	98.1	99.2	99.2	99.4	99.5	99.7	99.9	99.9
≥300		75.8	79.3	88.2	91.4	92.1	94.4	96.9	98.1	99.2	99.2	99.4	99.5	99.7	99.9	99.9
≥200		75.8	79.3	88.2	91.4	92.1	94.4	96.9	98.1	99.2	99.2	99.4	99.5	99.7	99.9	99.9
≥100		75.8	79.3	88.2	91.4	92.1	94.4	96.9	98.1	99.2	99.2	99.4	99.5	99.7	99.9	99.9

TOTAL NUMBER OF OBSERVATIONS 929

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

75521  
STATION

ALCONBURY RAF UK  
STATION NAME

74-87  
YEARS

MAR  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700  
HOURS (LT)

CEILING FEET	VISIBILITY: STATUTE MILES OR (HUNDREDS OF METERS)															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1.2	≥1	≥0.8	≥0.6	≥0.5	≥0.4	≥0.3	≥0.2
NO CEILING ≥ 20000	20.5	21.2	22.0	22.0	22.0	22.2	22.2	22.2	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3
≥ 18000	29.1	29.8	31.0	31.0	31.0	31.2	31.4	31.4	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5
≥ 16000	29.1	29.8	31.0	31.0	31.0	31.2	31.4	31.4	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5
≥ 14000	29.5	31.1	31.3	31.3	31.3	31.5	31.7	31.7	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8
≥ 12000	30.4	31.1	32.3	32.3	32.3	32.5	32.7	32.7	32.8	32.8	32.8	32.8	32.8	32.8	32.8	32.8
≥ 10000	32.8	33.6	34.6	34.6	34.6	35.7	35.2	35.2	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3
≥ 9000	34.1	34.9	36.2	36.2	36.2	36.4	36.6	36.6	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7
≥ 8000	38.7	39.5	40.9	40.9	40.9	41.1	41.3	41.3	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4
≥ 7000	39.9	40.9	42.5	42.7	42.7	42.9	43.2	43.2	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
≥ 6000	40.1	41.1	42.8	43.0	43.0	43.3	43.5	43.5	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
≥ 5000	42.2	43.2	45.1	45.2	45.2	45.4	45.7	45.7	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8
≥ 4500	45.1	46.1	48.5	48.7	48.7	48.9	49.1	49.1	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2
≥ 4000	51.5	52.6	55.0	55.4	55.4	55.7	55.9	55.9	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
≥ 3500	58.0	59.1	61.6	62.1	62.1	62.5	62.7	62.7	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8
≥ 3000	63.3	64.3	67.0	67.5	67.5	68.7	68.3	68.7	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥ 2500	65.4	66.6	70.0	70.5	70.5	71.1	71.3	71.3	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4
≥ 2000	72.0	73.4	78.5	79.2	79.2	81.0	80.2	80.2	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
≥ 1800	72.2	73.7	78.8	79.7	79.7	80.5	80.8	80.8	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9
≥ 1500	75.5	77.3	84.3	85.3	85.5	86.5	86.7	86.7	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
≥ 1200	77.3	79.2	87.2	88.5	88.8	90.1	90.8	90.8	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 1000	78.5	80.7	88.8	90.4	90.9	92.9	94.0	94.2	94.7	94.7	94.7	94.7	94.8	94.8	94.8	94.8
≥ 900	78.7	80.9	89.2	90.9	91.3	93.5	94.6	94.8	95.2	95.2	95.3	95.4	95.4	95.4	95.4	95.4
≥ 800	78.7	81.1	89.5	91.1	91.5	93.7	94.8	95.0	95.4	95.4	95.5	95.7	95.7	95.7	95.7	95.7
≥ 700	76.8	81.4	90.0	91.6	92.1	94.2	95.5	96.1	96.5	96.5	96.6	96.8	96.8	96.8	96.8	96.8
≥ 600	79.1	81.7	90.4	92.2	92.6	94.9	96.3	96.8	97.6	97.6	97.7	97.9	97.9	97.9	97.9	97.9
≥ 500	79.1	81.7	90.7	92.5	92.9	95.4	97.0	97.5	98.3	98.3	98.4	98.6	98.6	98.6	98.6	98.6
≥ 400	79.1	81.7	90.7	92.6	93.0	95.8	97.3	97.9	98.8	98.8	98.9	99.2	99.5	99.5	99.5	99.5
≥ 300	79.1	81.7	90.7	92.7	93.2	95.9	97.4	98.2	99.2	99.2	99.3	99.7	99.9	99.9	99.9	99.9
≥ 200	79.1	81.7	90.7	92.7	93.2	95.9	97.4	98.3	99.3	99.3	99.5	99.8	100.0	100.0	100.0	100.0
≥ 100	79.1	81.7	90.7	92.7	93.2	95.9	97.4	98.3	99.3	99.3	99.5	99.8	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 920

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIP WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION  
175621

STATION NAME  
ALCONBURY RAF UK

YEAR  
74-87

MAP  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1900-2000  
HOURS

CEILING FEET	VISIBILITY STATUTE MILES OR (HUNDREDS OF METERS)															
	≥10 >16	25 GE9	25 GF8	24 GE6	23 GF4	22 GF4	21 GF3	21 GF2	21 GF2	21 GF1	21 GF1	21 GF1	21 GF1	21 GF1	21 GF1	20
NO CEILING		28.3	29.6	31.0	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7
≥ 20000		33.4	35.0	36.6	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1
≥ 18000		33.5	35.1	36.9	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2
≥ 16000		33.6	35.4	37.2	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4
≥ 14000		33.8	35.4	37.2	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4
≥ 12000		34.1	35.8	37.5	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8
≥ 10000		37.3	39.1	40.8	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1
≥ 9000		38.3	40.1	42.1	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4
≥ 8000		42.1	44.1	46.1	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
≥ 7000		42.6	44.6	46.6	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9
≥ 6000		42.9	44.9	46.9	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2
≥ 5000		44.1	46.4	48.5	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9
≥ 4500		46.1	48.7	50.6	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3
≥ 4000		51.2	53.7	55.5	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7
≥ 3500		55.9	59.7	61.8	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
≥ 3000		60.4	63.6	67.5	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
≥ 2500		62.5	65.7	70.2	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
≥ 2000		65.9	69.7	75.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2
≥ 1800		66.8	71.5	76.4	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8
≥ 1600		69.4	73.5	80.0	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
≥ 1400		71.2	75.7	82.9	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
≥ 1200		71.9	77.0	84.7	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 1000		72.1	77.2	85.0	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥ 900		72.2	77.4	85.1	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 800		72.2	77.4	85.1	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 700		72.2	77.4	85.1	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 600		72.2	77.4	85.1	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 500		72.3	77.7	86.0	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
≥ 400		72.3	77.7	86.0	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
≥ 300		72.3	77.7	86.0	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
≥ 200		72.3	77.7	86.0	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
≥ 100		72.3	77.7	86.0	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
≥ 50		72.3	77.7	86.0	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6

TOTAL NUMBER OF OBSERVATIONS 791

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

5521 ALCONBURY RAF UK

74-83

MAR

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

150-2300  
MOON 151

CEILING FEET	VISIBILITY STATUTE MILES OR (HUNDREDS OF METERS)															
	≥10 >16	≥6 GE90	≥5 GE80	≥4 GE60	≥3 GE40	≥2 GE40	≥2 GE32	≥1 GE24	≥1 GE20	≥1 GE16	≥1 GE12	≥1 GE10	≥1 GE08	≥1 GE05	≥1 GE04	≥0
NO CEILING		33.0	34.5	36.6	37.5	37.6	38.3	38.6	38.6	38.6	38.6	38.7	38.7	38.7	38.7	38.7
≥ 20000		36.6	38.3	41.0	41.8	42.0	42.8	43.1	43.1	43.1	43.1	43.2	43.2	43.2	43.2	43.2
≥ 18000		36.6	38.3	41.0	41.8	42.0	42.8	43.1	43.1	43.1	43.1	43.2	43.2	43.2	43.2	43.2
≥ 16000		36.6	38.3	41.0	41.8	42.0	42.8	43.1	43.1	43.1	43.1	43.2	43.2	43.2	43.2	43.2
≥ 14000		36.6	38.3	41.0	41.8	42.0	42.8	43.1	43.1	43.1	43.1	43.2	43.2	43.2	43.2	43.2
≥ 12000		37.2	38.7	41.4	42.2	42.4	43.2	43.5	43.5	43.5	43.5	43.6	43.6	43.6	43.6	43.6
≥ 10000		39.1	40.6	43.5	44.3	44.4	45.2	45.5	45.5	45.5	45.5	45.6	45.6	45.6	45.6	45.6
≥ 9000		39.1	41.0	44.1	45.0	45.1	45.9	46.2	46.2	46.2	46.2	46.3	46.3	46.3	46.3	46.3
≥ 8000		41.3	42.8	46.2	47.1	47.3	48.1	48.4	48.4	48.4	48.4	48.5	48.5	48.5	48.5	48.5
≥ 7000		41.6	43.1	46.5	47.4	47.5	48.3	48.6	48.6	48.6	48.6	48.8	48.8	48.8	48.8	48.8
≥ 6000		41.7	43.2	46.6	47.5	47.7	48.5	48.8	48.8	48.8	48.8	48.9	48.9	48.9	48.9	48.9
≥ 5000		44.6	44.3	47.7	48.8	48.9	49.7	50.0	50.0	50.0	50.0	50.1	50.1	50.1	50.1	50.1
≥ 4500		44.3	46.2	49.7	50.8	51.0	51.8	52.2	52.2	52.2	52.2	52.3	52.3	52.3	52.3	52.3
≥ 4000		48.8	51.1	54.6	56.0	56.1	56.9	57.4	57.4	57.4	57.4	57.5	57.5	57.5	57.5	57.5
≥ 3500		51.2	54.2	58.2	59.9	60.1	60.9	61.3	61.3	61.3	61.3	61.4	61.4	61.4	61.4	61.4
≥ 3000		55.4	58.9	64.0	65.9	66.1	66.9	67.3	67.3	67.3	67.3	67.4	67.4	67.4	67.4	67.4
≥ 2500		56.9	60.5	66.2	68.3	68.5	69.3	69.6	70.0	70.0	70.0	70.2	70.2	70.2	70.2	70.2
≥ 2000		60.4	64.4	71.3	73.8	74.1	75.1	75.5	75.7	75.7	75.7	75.9	76.2	76.2	76.2	76.2
≥ 1800		61.7	65.8	72.6	75.2	75.5	76.4	76.8	77.1	77.1	77.1	77.2	77.5	77.5	77.5	77.5
≥ 1600		64.9	69.3	76.7	79.3	79.6	82.8	81.3	81.6	81.6	81.6	81.7	82.0	82.0	82.0	82.0
≥ 1400		66.2	71.1	79.4	82.4	82.8	84.5	85.1	85.4	85.4	85.4	85.6	85.8	85.8	85.8	85.8
≥ 1200		67.7	72.9	81.9	85.1	85.6	87.7	88.4	88.7	88.8	88.8	89.2	89.2	89.2	89.2	89.2
≥ 1000		68.4	73.6	82.7	86.0	86.4	88.6	89.2	89.5	89.6	89.6	89.8	90.1	90.1	90.1	90.1
≥ 900		68.4	73.8	83.1	86.8	87.3	89.8	90.9	91.1	91.4	91.4	91.6	91.8	91.8	91.8	91.8
≥ 800		68.7	74.3	83.9	87.9	88.4	90.9	92.4	92.9	93.2	93.2	93.3	93.6	93.6	93.6	93.6
≥ 700		68.9	74.5	84.3	88.3	88.8	91.6	93.6	94.4	94.7	94.7	94.8	95.1	95.1	95.1	95.1
≥ 600		68.9	74.5	84.5	88.6	89.1	92.7	94.4	95.4	95.8	95.8	95.9	96.2	96.2	96.2	96.2
≥ 500		68.9	74.5	84.5	88.6	89.1	92.4	95.5	96.5	96.9	96.9	97.0	97.3	97.3	97.3	97.3
≥ 400		68.9	74.5	84.5	88.6	89.1	92.4	95.8	96.9	97.3	97.7	97.8	98.4	98.4	98.5	98.5
≥ 300		68.9	74.5	84.5	88.6	89.1	92.4	95.8	97.0	98.0	98.5	98.6	99.2	99.3	99.5	99.7
≥ 200		68.9	74.5	84.5	88.6	89.1	92.4	95.8	97.0	98.1	98.6	98.8	99.3	99.5	99.7	100.0
≥ 100		68.9	74.5	84.5	88.6	89.1	92.4	95.8	97.0	98.1	98.6	98.8	99.3	99.5	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 738

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

35621  
STATION

ALCONBURY RAF UK  
STATION NAME

74-87  
YEARS

4AC  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL  
HOURS 1-24

CEILING FEET	VISIBILITY: STATUTE MILES OR (HUNDREDS OF METERS)																		
	≥10 >16	≥6 GE90	≥5 GE80	≥4 GE60	≥3 GE48	≥2.5 GE40	≥2 GE32	≥1.5 GE24	≥1 GE20	≥0.75 GE16	≥0.5 GE12	≥0.25 GE10	≥0.15 GE08	≥0.1 GE05	≥0.075 GE04	≥0.05 GE03	≥0.025 GE02	≥0.015 GE01	≥0.0075 GE00
NO CEILING		23.7	24.8	27.1	27.7	27.8	28.4	28.7	28.9	29.0	29.0	29.1	29.1	29.2	29.3	29.3	29.5		
≥ 20000		29.2	37.6	33.4	34.7	34.5	35.1	35.5	35.7	35.9	36.0	36.0	36.0	36.1	36.3	36.3	36.5		
≥ 18000		29.3	30.7	33.5	34.4	34.6	35.2	35.6	35.8	36.0	36.1	36.2	36.2	36.3	36.4	36.6			
≥ 16000		29.3	30.7	33.5	34.5	34.6	35.3	35.7	35.8	36.1	36.1	36.2	36.2	36.3	36.4	36.7			
≥ 14000		29.4	30.8	33.7	34.6	34.8	35.4	35.8	36.0	36.2	36.3	36.3	36.3	36.4	36.6	36.8			
≥ 12000		30.0	31.4	34.3	35.2	35.4	36.0	36.4	36.6	36.8	36.9	37.0	37.0	37.1	37.2	37.4			
≥ 10000		31.9	33.4	36.3	37.2	37.4	38.0	38.5	38.7	38.9	38.9	39.0	39.0	39.1	39.3	39.5			
≥ 9000		32.8	34.3	37.4	38.3	38.5	39.2	39.6	39.8	40.1	40.1	40.2	40.2	40.3	40.4	40.6			
≥ 8000		36.3	37.9	41.0	42.1	42.2	42.9	43.4	43.6	43.9	43.9	44.0	44.0	44.1	44.2	44.4			
≥ 7000		36.6	39.4	41.6	42.7	42.9	43.6	44.1	44.3	44.6	44.6	44.7	44.8	44.9	45.0	45.2			
≥ 6000		36.9	38.6	41.8	42.9	43.1	43.8	44.3	44.5	44.8	44.8	44.9	45.0	45.0	45.2	45.4			
≥ 5000		38.2	39.9	43.3	44.4	44.6	45.4	45.9	46.2	46.4	46.5	46.6	46.6	46.7	46.9	47.1			
≥ 4500		40.2	42.0	45.7	47.0	47.2	48.0	48.6	48.8	49.1	49.2	49.2	49.3	49.4	49.5	49.8			
≥ 4000		44.5	46.4	50.3	51.6	51.9	52.7	53.3	53.6	53.8	53.9	54.0	54.0	54.1	54.3	54.5			
≥ 3500		48.3	50.5	54.7	56.2	56.5	57.3	58.0	58.3	58.5	58.6	58.7	58.7	58.8	59.0	59.2			
≥ 3000		53.0	55.4	60.0	61.7	62.0	63.0	63.7	63.9	64.2	64.3	64.4	64.4	64.5	64.7	64.9			
≥ 2500		55.5	57.9	63.2	65.0	65.3	66.4	67.2	67.5	67.8	67.8	67.9	68.0	68.1	68.3	68.5			
≥ 2000		59.6	62.3	68.4	70.5	70.8	72.1	73.0	73.3	73.6	73.7	73.8	73.9	74.0	74.2	74.4			
≥ 1800		60.4	63.1	69.3	71.5	71.8	73.1	74.0	74.4	74.7	74.8	74.9	74.9	75.0	75.2	75.4			
≥ 1600		63.3	66.3	73.6	75.9	76.3	77.8	78.7	79.1	79.4	79.5	79.6	79.7	79.8	80.0	80.2			
≥ 1400		65.5	68.7	76.6	79.3	79.8	81.5	83.0	83.4	83.6	83.9	84.0	84.1	84.2	84.4	84.6			
≥ 1200		66.9	70.3	78.8	81.8	82.3	84.4	86.1	86.6	87.1	87.2	87.3	87.4	87.5	87.7	87.9			
≥ 1000		67.5	71.9	79.6	82.6	83.2	85.4	87.2	87.7	88.3	88.4	88.5	88.6	88.7	88.9	89.1			
≥ 900		67.7	71.2	80.0	83.2	83.9	86.2	88.2	88.7	89.4	89.5	89.6	89.8	89.9	90.1	90.3			
≥ 800		67.9	71.5	80.6	84.0	84.7	87.2	89.5	90.2	90.9	91.0	91.2	91.3	91.5	91.7	91.9			
≥ 700		68.1	71.7	81.0	84.5	85.3	88.0	90.8	91.6	92.6	92.7	92.8	93.0	93.2	93.4	93.6			
≥ 600		68.1	71.8	81.2	85.0	85.8	88.8	91.8	92.9	94.0	94.2	94.3	94.6	94.8	95.1	95.3			
≥ 500		68.1	71.8	81.4	85.2	86.0	89.2	92.7	93.0	95.2	95.4	95.6	95.9	96.3	96.5	96.8			
≥ 400		68.1	71.8	81.4	85.2	86.1	89.3	92.9	94.3	96.1	96.5	96.9	97.4	98.3	99.1	100.0			
≥ 300		68.1	71.8	81.4	85.2	86.1	89.3	92.9	94.3	96.1	96.5	96.9	97.4	98.3	99.1	100.0			
≥ 200		68.1	71.8	81.4	85.2	86.1	89.3	92.9	94.3	96.1	96.5	96.9	97.4	98.3	99.1	100.0			
≥ 100		68.1	71.8	81.4	85.2	86.1	89.3	92.9	94.3	96.1	96.5	96.9	97.4	98.3	99.1	100.0			
≥ 0		68.1	71.8	81.4	85.2	86.1	89.3	92.9	94.3	96.1	96.5	96.9	97.4	98.3	99.1	100.0			

TOTAL NUMBER OF OBSERVATIONS 6342

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

15621 ALCONBURY RAF UK

74-87

AE

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

DDC-7100

CEILING FEET	VISIBILITY STATUTE MILES OR (HUNDREDS OF METERS)															
	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95
2000	35.6	36.5	40.2	47.4	48.4	41.7	41.7	41.0	42.5	42.5	42.5	42.7	42.7	42.7	43.5	
1800	36.5	40.2	44.4	44.4	44.4	45.0	45.6	46.3	46.9	46.9	47.3	47.5	47.5	47.5	48.3	
1600	36.5	40.2	44.4	44.4	44.6	45.2	45.6	46.3	47.1	47.1	47.1	47.5	47.7	47.7	48.5	
1400	36.5	40.2	44.4	44.4	44.6	45.2	45.6	46.3	47.1	47.1	47.1	47.5	47.7	47.7	48.5	
1200	36.5	40.2	44.4	44.4	44.6	45.2	45.6	46.3	47.1	47.1	47.1	47.5	47.7	47.7	48.5	
1000	39.0	40.8	45.2	45.4	45.4	46.3	46.5	47.7	48.1	48.1	48.1	48.5	48.8	48.8	49.6	
800	39.4	41.3	45.6	45.8	45.8	46.7	47.3	47.7	48.5	48.5	48.5	49.1	49.2	49.2	50.0	
600	40.6	42.7	47.1	47.5	47.5	48.3	49.0	49.4	50.4	50.4	50.4	50.8	51.0	51.0	51.9	
400	40.6	42.7	47.5	47.9	47.9	48.8	49.4	49.8	50.8	50.8	50.8	51.3	51.5	51.5	52.3	
200	41.0	43.3	47.9	48.3	48.3	49.2	49.8	50.2	51.3	51.3	51.3	51.7	51.9	51.9	52.7	
100	42.7	45.2	50.0	50.4	50.6	51.7	52.3	52.7	53.8	53.8	53.8	54.2	54.4	54.4	55.2	
50	44.6	47.1	52.1	52.5	52.7	53.8	54.4	54.8	55.8	55.8	55.8	56.3	56.5	56.5	57.3	
25	46.3	50.8	56.5	56.5	56.7	58.5	59.2	59.6	60.6	60.6	60.6	61.3	61.3	61.3	62.1	
12.5	51.3	54.7	60.6	61.7	61.3	63.1	63.8	64.7	65.2	65.2	65.2	65.6	65.8	65.8	66.7	
6.25	55.4	58.3	65.2	65.8	66.7	68.5	69.4	69.8	70.8	70.8	70.8	71.3	71.5	71.5	72.3	
3.125	57.3	67.2	67.5	68.1	68.3	70.8	71.7	72.1	73.1	73.1	73.1	73.5	73.8	73.8	74.6	
1.5625	61.5	64.4	72.3	72.9	73.1	75.6	76.5	76.9	77.9	77.9	77.9	78.3	78.5	78.5	79.4	
0.78125	62.3	65.2	73.1	73.8	74.0	76.5	77.3	77.7	78.8	78.8	78.8	79.2	79.4	79.4	80.2	
0.390625	65.7	67.9	75.8	76.5	76.7	79.2	80.0	80.4	81.5	81.5	81.5	81.9	82.1	82.1	82.9	
0.1953125	67.9	70.8	79.0	79.6	79.6	82.3	83.3	83.8	84.8	84.8	84.8	85.2	85.4	85.4	86.3	
0.09765625	69.4	72.1	80.6	81.3	81.5	84.7	85.4	85.4	86.5	86.5	86.5	86.9	87.1	87.1	87.9	
0.048828125	69.4	70.5	81.0	81.7	81.9	84.4	85.4	85.8	86.9	86.9	86.9	87.3	87.5	87.5	88.3	
0.0244140625	70.2	73.3	82.1	82.7	82.9	85.6	86.7	87.1	88.3	88.3	88.3	88.8	89.0	89.0	89.8	
0.01220703125	71.3	74.4	83.1	83.8	84.0	86.7	87.7	88.1	89.4	89.4	89.4	89.8	90.0	90.0	90.8	
0.006103515625	71.7	74.8	84.4	85.2	85.4	88.3	89.4	89.8	91.0	91.0	91.0	91.5	91.7	91.7	92.5	
0.0030517578125	72.3	75.4	85.0	85.8	86.1	89.4	90.4	90.8	92.1	92.1	92.1	92.5	92.7	92.7	93.5	
0.00152587890625	72.5	75.6	85.4	86.5	87.3	90.8	92.5	92.9	94.2	94.2	94.2	94.6	94.8	94.8	95.6	
0.000762939453125	72.5	75.6	85.8	86.9	87.7	91.5	93.8	94.6	95.8	95.8	95.8	96.3	96.5	96.5	97.3	
0.0003814697265625	72.5	75.6	85.8	86.9	87.7	91.5	94.0	95.0	97.1	97.1	97.1	97.3	97.7	97.7	98.5	
0.00019073486328125	72.5	75.6	85.8	86.9	87.7	91.5	94.0	95.0	97.1	97.1	97.1	97.3	97.7	97.7	98.5	

TOTAL NUMBER OF OBSERVATIONS 480

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

15521 ALCONBURY RAF UK

74-87

APD

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

300-0500  
HOURS

CEILING FEET	VISIBILITY STATUTE MILES															
	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95
>16	26.2	27.1	30.3	31.0	31.1	31.8	32.9	33.4	33.8	34.1	34.1	34.1	34.4	34.6	35.6	
15000	26.4	30.5	34.1	35.0	35.2	36.0	37.0	37.6	38.0	38.3	38.4	38.5	38.8	39.1	40.0	
12000	29.4	30.5	34.1	35.0	35.2	36.0	37.0	37.6	38.0	38.3	38.4	38.5	38.8	39.1	40.0	
9000	29.4	30.5	34.1	35.0	35.2	36.0	37.0	37.6	38.0	38.3	38.4	38.5	38.8	39.1	40.0	
6000	29.4	30.5	34.1	35.0	35.2	36.0	37.0	37.6	38.0	38.3	38.4	38.5	38.8	39.1	40.0	
3000	29.4	30.5	34.1	35.0	35.2	36.0	37.0	37.6	38.0	38.3	38.4	38.5	38.8	39.1	40.0	
1000	29.9	31.0	34.9	36.1	36.2	37.7	38.6	39.3	39.7	40.7	40.1	40.3	40.5	40.8	42.0	
500	30.5	31.5	35.4	36.6	36.8	38.4	39.5	40.1	40.5	40.8	40.9	41.1	41.3	41.6	42.8	
200	32.3	33.7	37.9	39.1	39.2	40.6	41.9	42.6	43.4	43.8	43.9	44.0	44.3	44.6	45.6	
100	32.8	34.2	38.6	40.0	40.1	41.7	42.8	43.5	44.3	44.7	44.8	45.0	45.2	45.5	46.7	
50	32.5	34.4	38.9	41.1	40.3	42.0	43.1	43.9	44.7	45.1	45.2	45.4	45.6	45.9	47.1	
25	34.6	36.2	41.2	42.4	42.6	45.0	46.6	47.4	48.2	48.6	48.7	48.9	49.1	49.4	50.6	
12.5	37.0	39.1	45.0	46.3	46.4	49.1	50.9	51.7	52.6	53.0	53.2	53.3	53.6	53.8	55.7	
6.25	41.7	42.8	49.5	51.0	51.1	54.0	55.7	56.5	57.4	57.9	58.0	58.1	58.4	58.7	59.9	
3.125	43.5	45.9	53.2	54.6	54.8	57.7	59.7	60.5	61.5	61.9	62.0	62.1	62.4	62.7	64.0	
1.5625	46.3	48.7	56.1	55.0	56.1	61.7	63.9	65.1	66.2	66.6	66.7	66.8	67.1	67.4	68.7	
0.78125	48.6	51.3	58.9	60.8	60.9	64.8	67.0	68.3	69.4	69.8	69.9	70.1	70.3	70.6	71.9	
0.390625	51.6	55.7	64.2	66.0	66.2	70.3	72.5	73.8	74.9	75.3	75.4	75.7	76.0	76.2	77.6	
0.1953125	53.4	56.8	65.2	67.1	67.2	71.4	73.6	74.9	76.0	76.4	76.5	76.8	77.0	77.3	78.7	
0.09765625	55.2	59.5	67.0	68.9	69.0	73.2	75.3	76.6	77.7	78.1	78.3	78.5	78.8	79.1	80.4	
0.048828125	57.6	61.7	70.3	72.3	72.5	76.6	78.8	80.1	81.2	81.6	81.7	82.0	82.3	82.6	83.9	
0.0244140625	58.8	62.4	71.7	73.7	73.8	78.0	80.4	81.7	83.0	83.4	83.5	83.8	84.0	84.3	85.8	
0.01220703125	58.9	62.6	71.9	74.0	74.1	78.3	80.7	82.0	83.5	83.9	84.0	84.3	84.6	84.8	86.3	
0.006103515625	59.9	63.5	73.2	75.2	75.3	79.5	82.0	83.4	84.8	85.2	85.4	85.6	85.9	86.2	87.7	
0.0030517578125	60.4	64.7	74.4	76.4	76.5	80.7	83.4	84.7	86.2	86.6	86.7	87.0	87.2	87.5	89.0	
0.00152587890625	61.6	64.6	75.0	77.4	77.7	81.9	84.6	85.9	87.4	87.8	87.9	88.2	88.5	88.7	90.2	
0.000762939453125	61.5	65.2	75.8	78.4	78.7	82.8	85.5	87.0	88.6	89.0	89.1	89.4	89.7	89.9	91.4	
0.0003814697265625	61.6	65.4	76.4	79.3	79.7	83.9	87.7	89.3	91.0	91.4	91.5	91.8	92.1	92.3	93.8	
0.00019073486328125	61.6	65.4	76.4	79.3	80.0	84.3	88.5	90.1	92.1	92.5	92.8	93.0	93.3	93.6	95.4	
0.000095367431640625	61.6	65.4	76.4	79.3	80.0	84.3	88.7	90.7	93.2	93.8	94.1	94.4	94.6	95.3	98.7	
0.0000476837158203125	61.6	65.4	76.4	79.3	80.0	84.3	88.7	90.7	93.2	93.8	94.1	94.4	95.3	95.7	100.0	

TOTAL NUMBER OF OBSERVATIONS 745

CLERICAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

75621 ALCONBURY RAF UK

74-87

APR

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

600-6000  
FOOT-FT

CEILING FEET	VISIBILITY STATUTE MILES OR (HUNDREDS OF METERS)															
	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95
>16	GE9	GE8	GE6	GE4	GE4	GE3	GE2	GE2	GE1	GE1	GE1	GE1	GE1	GE1	GE1	GE1
15000	21.8	22.5	25.2	26.3	26.6	27.8	29.7	29.4	31.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2
12000	25.9	26.9	30.1	31.2	31.5	33.2	34.5	34.9	35.9	35.9	35.9	35.9	36.1	36.1	36.2	37.1
9000	25.9	26.9	30.1	31.2	31.5	33.2	34.5	34.9	35.9	35.9	35.9	35.9	36.1	36.1	36.2	37.1
6000	26.1	27.1	31.2	31.3	31.6	33.3	34.6	35.7	36.0	36.0	36.0	36.0	36.1	36.2	36.4	37.2
3000	26.3	27.3	31.6	31.7	31.9	33.7	35.7	35.4	36.4	36.4	36.4	36.4	36.5	36.6	36.7	37.6
1000	27.3	28.4	32.3	33.5	33.8	35.5	37.7	37.5	38.7	38.8	38.8	38.8	38.9	39.2	39.3	40.1
500	27.9	29.0	32.9	34.5	34.8	36.5	38.1	38.6	39.8	39.9	39.9	39.9	40.0	40.3	40.4	41.2
400	31.4	31.5	35.5	37.2	37.5	39.3	40.4	41.5	42.8	43.0	43.1	43.2	43.6	43.7	44.6	
300	31.6	31.9	36.1	37.8	38.1	39.9	41.5	42.1	43.5	43.6	43.7	43.8	44.2	44.3	45.2	
200	31.0	32.1	36.2	37.9	38.2	41.7	41.6	42.2	43.6	43.7	43.8	43.9	44.2	44.4	45.3	
100	33.8	34.9	39.4	41.2	41.6	43.6	45.5	46.1	47.7	47.9	48.1	48.2	48.6	48.7	49.6	
50	35.5	36.8	41.9	43.9	44.4	46.6	48.8	49.4	51.5	51.7	51.9	52.7	52.4	52.5	53.4	
25	38.2	41.4	46.1	48.6	49.1	51.5	54.2	54.8	56.9	57.0	57.3	57.4	57.8	57.9	58.8	
10	41.6	43.2	49.2	51.9	52.4	55.7	58.1	58.8	61.0	61.1	61.3	61.4	61.8	61.9	62.8	
5	43.7	45.8	52.3	55.1	55.6	58.5	61.6	62.2	64.7	65.7	65.2	65.4	65.7	65.9	66.7	
2	46.1	48.5	55.4	58.8	59.2	62.4	65.6	66.2	68.8	69.7	69.3	69.8	70.1	70.3	71.1	
1	50.3	53.2	60.7	64.0	64.5	67.8	71.0	71.8	74.5	74.8	75.7	75.6	76.7	76.1	77.0	
0.5	51.2	54.2	61.7	65.2	65.7	69.0	72.2	73.7	75.8	76.0	76.3	76.9	77.2	77.4	78.2	
0.25	52.7	56.1	63.8	67.4	68.1	71.4	74.7	75.5	78.3	78.6	78.8	79.4	79.8	79.9	80.8	
0.1	55.0	58.1	66.2	69.9	70.5	73.9	77.4	78.2	81.3	81.5	81.8	82.4	82.7	82.9	83.7	
0.05	56.3	59.6	67.7	71.4	72.4	75.4	78.8	79.8	83.1	83.4	83.6	84.2	84.7	84.8	85.7	
0.025	56.7	60.0	68.2	72.1	72.7	76.3	79.8	80.8	84.1	84.3	84.6	85.2	85.7	85.8	86.7	
0.01	57.3	61.6	69.8	73.8	73.9	77.1	80.7	81.6	84.9	85.2	85.4	86.0	86.5	86.7	87.5	
0.005	57.4	61.7	69.9	73.2	73.8	77.6	81.5	82.5	85.8	86.0	86.3	86.9	87.4	87.5	88.4	
0.0025	57.9	61.2	71.3	74.8	75.4	79.6	83.8	85.1	88.4	88.6	88.9	89.5	90.0	90.1	90.9	
0.001	58.3	61.6	70.7	75.3	75.9	80.7	84.6	85.0	89.6	89.8	90.1	90.7	91.2	91.3	92.2	
0.0005	58.3	61.6	71.2	75.8	76.5	80.8	85.4	86.8	91.9	91.2	91.4	92.7	92.5	92.7	93.8	
0.00025	58.3	61.6	71.2	75.8	76.5	80.8	85.4	87.1	92.0	92.7	93.3	94.2	95.0	95.3	96.1	
0.0001	58.3	61.6	71.2	75.8	76.5	80.8	85.4	87.1	92.2	92.8	93.5	94.5	95.3	95.8	96.0	
0.00005	58.3	61.6	71.2	75.8	76.5	80.8	85.4	87.1	92.2	92.8	93.5	94.5	95.3	95.8	96.0	

TOTAL NUMBER OF OBSERVATIONS 817

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AF WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

75621  
STATION

ALCONBURY RAF UK  
STATION NAME

74-87  
YEARS

APR  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

920-1120  
HOURS

CEILING FEET	VISIBILITY STATUTE MILES OR (HUNDREDS OF METERS)															
	≥ 10 > 16	≥ 6 GE97	≥ 5 GE87	≥ 4 GE60	≥ 3 GE40	≥ 2 GE32	≥ 1 GE24	≥ 1 GE21	≥ 1 GE16	≥ 1 GE12	≥ 1 GE10	≥ 1 GE78	≥ 1 GE65	≥ 1 GE54	≥ 1 GE42	≥ 1 GE30
NO CEILING ≥ 20000		22.3	22.6	24.4	25.3	25.5	26.1	26.1	26.1	26.2	26.4	26.5	26.5	26.5	26.5	26.7
≥ 18000 ≥ 16000		26.1	26.8	28.9	29.9	30.1	30.8	31.0	31.0	31.1	31.2	31.2	31.3	31.3	31.3	31.5
≥ 14000 ≥ 12000		26.1	26.8	28.9	29.9	30.1	30.8	31.0	31.0	31.1	31.2	31.2	31.3	31.3	31.3	31.5
≥ 10000 ≥ 9000		26.1	26.8	28.9	29.9	30.1	30.8	31.0	31.0	31.1	31.2	31.2	31.3	31.3	31.3	31.5
≥ 8000 ≥ 7000		32.2	33.1	35.9	37.4	37.6	38.8	38.9	39.1	39.2	39.2	39.4	39.4	39.4	39.4	39.6
≥ 6000 ≥ 5000		33.3	34.2	37.1	38.6	38.9	40.3	40.4	40.6	40.7	40.7	40.9	40.9	40.9	40.9	41.1
≥ 4500 ≥ 4000		36.2	37.2	40.6	42.3	42.7	44.3	44.6	44.6	45.0	45.1	45.1	45.2	45.2	45.2	45.5
≥ 3500 ≥ 3000		40.4	42.5	46.1	47.9	48.2	50.2	50.5	50.5	50.9	51.0	51.0	51.1	51.1	51.1	51.3
≥ 2500 ≥ 2000		46.4	47.5	51.6	53.4	53.7	55.7	56.0	56.0	56.4	56.5	56.5	56.6	56.6	56.6	56.8
≥ 1800 ≥ 1600		55.8	57.1	61.4	63.5	63.9	65.8	66.5	66.5	67.0	67.1	67.1	67.3	67.3	67.3	67.5
≥ 1400 ≥ 1200		61.0	62.4	67.2	69.4	69.9	72.0	72.7	72.8	73.3	73.4	73.4	73.8	73.8	73.8	74.0
≥ 1000 ≥ 900		64.7	66.3	71.3	73.8	74.2	76.4	77.3	77.4	77.9	78.0	78.4	78.4	78.4	78.4	78.6
≥ 800 ≥ 700		65.4	67.1	72.2	74.7	75.1	77.3	78.3	78.4	78.8	78.9	78.9	79.3	79.3	79.3	79.5
≥ 600 ≥ 500		68.0	69.7	75.3	78.0	78.5	80.7	81.6	81.7	82.2	82.3	82.3	82.6	82.6	82.6	82.9
≥ 400 ≥ 300		70.7	72.5	78.6	81.6	82.1	84.6	85.8	86.0	86.4	86.5	86.5	86.9	86.9	86.9	87.1
≥ 200 ≥ 100		72.3	74.2	80.9	84.1	84.6	87.2	88.7	88.8	89.3	89.4	89.4	89.8	89.8	89.8	90.0
≥ 100 ≥ 50		72.6	74.6	81.4	84.7	85.2	87.8	89.3	89.4	89.9	90.0	90.0	90.3	90.3	90.3	90.6
≥ 50 ≥ 20		73.3	75.3	82.9	86.3	86.8	89.5	91.1	91.3	91.7	91.8	91.8	92.2	92.2	92.2	92.4
≥ 10 ≥ 5		73.5	75.6	83.3	86.0	87.5	90.4	92.4	92.5	93.0	93.1	93.1	93.4	93.4	93.4	93.7
≥ 5 ≥ 1		73.8	75.9	83.9	87.6	88.1	91.4	93.6	93.7	94.5	94.6	94.6	94.9	94.9	94.9	95.2
≥ 1 ≥ 0		73.8	75.9	83.9	87.6	88.3	91.6	93.8	94.2	95.4	95.5	95.5	96.0	96.1	96.1	96.3
≥ 0		73.8	75.9	83.9	87.6	88.3	91.6	93.9	94.6	96.3	96.4	96.4	97.0	97.1	97.1	97.4
≥ 0		73.8	75.9	83.9	87.6	88.3	91.6	94.0	94.0	97.1	97.2	97.5	98.2	98.5	98.8	99.3
≥ 0		73.8	75.9	83.9	87.6	88.3	91.6	94.0	94.0	97.1	97.2	97.7	98.4	99.1	99.5	100.0
≥ 0		73.8	75.9	83.9	87.6	88.3	91.6	94.0	94.0	97.1	97.2	97.7	98.4	99.1	99.5	100.0
≥ 0		72.8	75.9	83.9	87.6	88.3	91.6	94.0	94.0	97.1	97.2	97.7	98.4	99.1	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS 869

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIP WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION

ALCONBURY RAF UK

74-87

YEARS

APR

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400

CEILING FEET	VISIBILITY - STATUTE MILES										OR (HUNDREDS OF METERS)									
	≥10	26	25	24	23	22	21	20	19	18	21	20	19	18	17	16	15	14	13	12
NO. CEILING ≥ 20000	216	519	618	616	614	612	610	608	606	604	616	612	610	608	606	604	602	600	598	596
2 18000	22.5	23.0	24.2	24.6	24.6	24.7	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9
2 16000	28.5	29.0	31.0	31.3	31.3	31.5	31.7	31.7	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8
2 14000	26.5	29.0	31.0	31.5	31.5	31.6	31.8	31.8	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9
2 12000	26.5	29.0	31.0	31.5	31.5	31.7	31.9	31.9	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0
2 10000	29.0	29.4	31.5	31.9	31.9	32.1	32.4	32.4	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
2 8000	30.1	30.6	32.6	33.1	33.1	33.4	33.6	33.6	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7
2 6000	31.7	32.2	34.3	34.8	34.8	35.1	35.3	35.3	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4
2 4000	35.5	36.1	38.2	38.9	38.9	39.1	39.3	39.3	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6
2 2000	36.3	37.2	39.3	40.0	40.0	40.2	40.5	40.5	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7
2 1000	36.4	37.3	39.5	40.1	40.1	40.4	40.6	40.6	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8
2 500	39.0	39.9	42.3	43.1	43.1	43.4	43.6	43.6	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9
2 400	41.9	42.8	45.3	46.1	46.1	46.4	46.7	46.7	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9
2 300	46.1	47.2	51.7	52.8	52.8	53.1	53.3	53.3	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6
2 200	57.5	58.7	61.6	62.7	62.7	63.5	63.7	63.7	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
2 100	68.4	69.8	72.9	74.2	74.2	75.1	75.3	75.3	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
2 50	74.1	75.4	79.1	80.5	80.6	81.4	81.6	81.6	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
2 20	78.4	79.9	83.7	85.0	85.1	85.9	86.1	86.1	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
2 10	79.3	80.8	84.8	86.1	86.2	87.0	87.3	87.3	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
2 5	81.7	83.7	88.3	89.7	89.9	90.8	91.0	91.0	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
2 2	83.7	85.6	90.5	92.1	92.2	93.6	93.9	93.9	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
2 1	84.6	86.5	91.9	93.5	93.6	95.7	95.4	95.5	95.8	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
2 0.5	85.1	87.0	92.9	94.5	94.6	96.2	96.5	96.6	97.0	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
2 0.2	85.1	87.0	92.8	94.7	94.8	96.5	96.8	97.7	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
2 0.1	85.1	87.0	92.9	95.0	95.2	97.0	97.3	97.4	97.7	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
2 0.05	85.2	87.1	93.1	95.4	95.5	97.6	98.0	98.2	98.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
2 0.02	85.3	87.3	93.2	95.5	95.6	97.9	98.3	98.5	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
2 0.01	85.3	87.3	93.2	95.5	95.6	98.0	98.4	98.9	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
2 0.005	85.3	87.3	93.2	95.5	95.6	98.0	98.4	98.9	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
2 0.002	85.3	87.3	93.2	95.5	95.6	98.0	98.4	98.9	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
2 0.001	85.3	87.3	93.2	95.5	95.6	98.0	98.4	98.9	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8

TOTAL NUMBER OF OBSERVATIONS 887

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

5621  
STATION

ALCONBURY RAF UK

74-87

APR  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700  
HOURS

CEILING FEET	VISIBILITY: STATUTE MILES																OR (HUNDREDS OF METERS)			
	≥10 >16	≥6 6L9	≥5 GF8	≥4 GE6	≥3 GE4	≥2 GE4	≥2 GE3	≥1 GE2	≥1 GE1	≥1 GE1	≥1 GE1	≥1 GE1	≥1 GE1	≥1 GE1	≥1 GE1	≥1 GE1	≥10 GE7	≥5 GE4	≥2 GE2	≥0
NO CEILING	26.3	26.4	26.8	27.1	27.1	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2
≥20000	33.1	33.2	34.1	34.6	34.6	34.7	34.7	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8
≥18000	33.1	33.2	34.2	34.7	34.7	34.8	34.8	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9
≥16000	33.2	33.3	34.3	34.8	34.8	34.9	34.9	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1
≥14000	34.1	34.2	35.3	35.8	35.8	35.9	35.9	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0
≥12000	35.2	35.3	36.6	37.0	37.0	37.2	37.2	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3
≥10000	36.7	36.8	38.1	38.6	38.6	38.7	38.7	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8
≥8000	40.2	40.3	41.6	42.1	42.1	42.2	42.2	42.4	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
≥7000	40.3	40.4	41.7	42.2	42.2	42.3	42.3	42.5	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
≥6000	42.3	42.4	43.7	44.2	44.2	44.3	44.3	44.5	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7
≥5000	45.4	45.6	47.2	47.7	47.7	47.8	47.8	48.1	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2
≥4500	49.4	49.9	51.8	52.4	52.5	52.6	52.6	52.9	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0
≥4000	58.9	59.6	61.8	62.4	62.5	62.6	62.6	62.8	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
≥3500	69.4	70.2	73.0	73.9	74.0	74.1	74.1	74.3	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4
≥3000	77.7	78.7	81.6	82.5	82.6	82.9	82.9	83.1	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
≥2500	81.9	83.1	86.4	87.6	87.7	88.0	88.0	88.3	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥2000	84.5	85.7	89.0	90.3	90.4	90.7	90.7	91.0	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
≥1800	85.6	86.8	90.0	91.4	91.6	91.9	91.9	92.1	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥1600	86.2	87.6	91.3	92.7	92.8	93.2	93.2	93.8	94.0	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
≥1400	87.1	88.6	92.6	94.3	94.4	94.8	95.5	95.8	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
≥1200	87.6	89.3	93.6	95.3	95.4	96.1	96.8	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥1000	87.6	89.3	93.6	95.4	95.5	96.2	97.0	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥800	87.6	89.3	93.7	95.5	95.7	96.4	97.1	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥700	87.6	89.4	93.9	96.0	96.1	96.8	97.7	97.9	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥600	87.6	89.4	94.3	96.4	96.6	97.7	98.5	98.8	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥500	87.6	89.4	94.3	96.4	96.6	97.8	98.6	99.1	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥400	87.6	89.4	94.3	96.4	96.6	97.8	98.8	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥300	87.6	89.4	94.3	96.4	96.6	97.8	98.8	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥200	87.6	89.4	94.3	96.4	96.6	97.8	98.8	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥100	87.6	89.4	94.3	96.4	96.6	97.8	98.8	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥50	87.6	89.4	94.3	96.4	96.6	97.8	98.8	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 853

USAF ETAC 1700 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

75621

ALCONBURY RAF UK

74-81

APR

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1800-2000

CEILING FEET	VISIBILITY STATUTE MILES OR (HUNDREDS OF METERS)															
	210	20	25	24	23	22	21	20	19	18	17	16	15	14	13	20
NO. CEILING	210	519	550	560	560	560	560	560	560	560	560	560	560	560	560	560
20000	32.3	32.0	34.7	34.8	35.3	35.6	35.9	36.7	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2
18000	41.1	41.6	43.7	44.1	44.7	45.1	45.3	45.8	46.1	46.0	46.0	46.0	46.0	46.0	46.0	46.0
16000	41.5	42.1	44.1	44.5	45.1	45.5	45.8	46.2	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4
14000	41.5	42.1	44.1	44.5	45.1	45.5	45.8	46.2	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4
12000	41.6	42.3	44.7	45.1	45.6	46.1	46.3	46.7	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
10000	43.0	43.7	46.0	46.4	47.0	47.4	47.7	48.1	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4
8000	43.8	44.7	47.0	47.4	47.9	48.4	48.6	49.0	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
6000	46.4	47.4	50.8	51.4	51.9	52.5	52.7	53.2	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4
4000	46.9	50.1	52.7	53.3	53.8	54.4	54.7	55.1	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
2000	49.0	57.1	52.9	53.4	54.0	54.5	54.8	55.2	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
1000	51.0	53.2	56.2	56.7	57.3	57.8	58.1	58.5	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8
500	54.1	55.8	58.9	59.5	60.0	60.5	60.8	61.2	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5
250	60.7	62.9	66.3	67.0	67.5	68.4	68.6	69.0	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
100	64.8	67.1	70.5	71.4	71.9	73.0	73.3	73.7	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
50	69.9	72.3	76.4	77.3	77.8	78.9	79.2	79.6	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1
25	74.4	77.1	81.6	82.6	83.2	84.4	84.7	85.1	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
10	77.3	80.0	84.7	85.6	86.3	87.5	87.8	88.2	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
5	77.4	80.1	84.8	85.8	86.4	87.7	87.9	88.4	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
2	76.8	81.6	86.7	87.6	88.5	89.9	90.3	90.7	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
1	81.1	83.3	88.9	90.4	91.1	92.7	93.2	93.7	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
0.5	80.8	84.2	90.0	91.5	92.2	94.7	94.4	95.1	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
0.25	81.0	84.1	90.1	91.6	92.3	94.1	94.5	95.2	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
0.1	81.2	84.4	90.4	92.1	92.7	94.7	95.2	95.9	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
0.05	81.2	84.4	90.4	92.2	92.9	94.8	95.6	96.3	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
0.025	81.4	84.5	90.8	92.6	93.3	95.2	96.3	97.1	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
0.01	81.4	84.5	90.8	93.0	93.8	95.9	97.4	98.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
0.005	81.4	84.5	90.8	93.0	93.8	95.9	97.4	98.4	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9
0.0025	81.4	84.5	90.8	93.0	93.8	95.9	97.4	98.4	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9
0.001	81.4	84.5	90.8	93.2	94.0	96.1	97.5	98.5	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 730



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AFC WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

75521  
STATION

ALCONBURY RAF UK  
STATION NAME

74-83  
YEARS

APR  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

21.2-2300  
HOURS

CEILING FEET	VISIBILITY STATUTE MILES OR (HUNDREDS OF METERS)															
	≥10 >16	≥9 GE9	≥8 GE8	≥7 GE7	≥6 GE6	≥5 GE5	≥4 GE4	≥3 GE3	≥2 GE2	≥1 GE1	≥1 GE1	≥1 GE1	≥1 GE1	≥1 GE1	≥1 GE1	≥1 GE1
≥20000		38.4	38.8	40.6	41.4	41.4	41.9	42.1	42.9	43.4	43.4	43.4	43.4	43.4	43.4	43.6
≥18000		43.6	44.2	46.0	47.0	47.0	48.2	48.3	49.2	49.7	49.7	49.7	49.7	49.7	49.7	49.8
≥16000		43.6	44.2	46.0	47.0	47.0	48.2	48.3	49.2	49.7	49.7	49.7	49.7	49.7	49.7	49.8
≥14000		43.6	44.2	46.0	47.0	47.0	48.2	48.3	49.2	49.7	49.7	49.7	49.7	49.7	49.7	49.8
≥12000		43.6	44.2	46.0	47.0	47.0	48.2	48.3	49.2	49.7	49.7	49.7	49.7	49.7	49.7	49.8
≥10000		45.0	45.9	48.0	49.0	49.0	50.2	50.3	51.2	51.7	51.7	51.7	51.7	51.7	51.7	51.8
≥9000		45.0	45.9	48.0	49.0	49.0	50.2	50.3	51.2	51.7	51.7	51.7	51.7	51.7	51.7	51.8
≥8000		46.7	47.5	49.8	50.8	50.8	52.0	52.1	53.0	53.5	53.5	53.5	53.5	53.5	53.5	53.6
≥7000		47.2	48.2	50.5	51.5	51.5	52.6	52.8	53.6	54.1	54.1	54.1	54.1	54.1	54.1	54.3
≥6000		47.4	48.3	51.0	52.0	52.0	53.1	53.3	54.1	54.6	54.6	54.6	54.6	54.6	54.6	54.8
≥5000		48.8	49.8	52.6	53.8	54.0	55.3	55.4	56.3	56.8	56.8	56.8	56.8	56.8	56.8	56.9
≥4500		51.7	53.1	55.9	57.3	57.4	58.7	58.9	59.7	60.2	60.2	60.2	60.2	60.2	60.2	60.4
≥4000		56.9	58.4	61.2	62.5	62.7	64.7	64.2	65.0	65.5	65.5	65.5	65.5	65.5	65.5	65.7
≥3500		62.0	63.7	66.8	68.3	68.6	70.0	70.1	71.0	71.5	71.5	71.5	71.5	71.5	71.5	71.6
≥3000		66.5	68.8	72.1	73.6	73.9	75.2	75.4	76.2	76.9	76.9	77.1	77.1	77.1	77.1	77.2
≥2500		69.8	72.1	76.1	77.6	77.9	79.2	79.4	80.2	80.9	80.9	81.0	81.0	81.0	81.0	81.2
≥2000		71.5	73.8	78.2	80.0	80.4	81.7	81.8	82.7	83.3	83.3	83.5	83.5	83.5	83.5	83.7
≥1800		71.8	74.1	78.5	80.5	80.9	82.2	82.3	83.2	83.8	83.8	84.0	84.0	84.0	84.0	84.2
≥1600		73.8	76.2	80.7	82.7	83.0	84.3	84.5	85.3	86.0	86.0	86.1	86.1	86.1	86.1	86.3
≥1400		75.6	78.4	83.5	85.6	86.7	87.3	87.5	88.3	88.9	88.9	89.1	89.1	89.1	89.1	89.3
≥1200		76.9	79.9	86.3	88.4	88.8	90.3	90.4	91.3	91.9	91.9	92.1	92.1	92.1	92.1	92.2
≥1000		76.9	79.9	86.5	88.6	88.9	90.4	90.9	91.7	92.4	92.4	92.6	92.6	92.6	92.6	92.7
≥900		77.6	80.5	87.5	89.8	90.1	91.6	92.1	92.9	93.6	93.6	93.7	93.7	93.7	93.7	93.9
≥800		78.2	81.4	88.3	90.8	91.1	92.6	93.6	94.4	95.0	95.0	95.2	95.2	95.2	95.2	95.4
≥700		78.7	81.8	89.1	91.7	92.1	93.6	94.7	95.5	96.2	96.2	96.4	96.4	96.4	96.4	96.5
≥600		79.0	82.3	89.8	92.7	93.7	95.2	96.7	97.5	98.3	98.3	98.5	98.5	98.5	98.5	98.7
≥500		79.0	82.3	89.8	92.7	93.7	95.2	96.7	97.5	98.3	98.3	98.5	98.5	98.5	98.5	98.7
≥400		79.0	82.3	89.8	92.7	93.7	95.2	96.7	97.5	98.3	98.3	98.5	98.5	98.5	98.5	98.7
≥300		79.0	82.3	89.8	92.7	93.7	95.2	96.7	97.5	98.3	98.3	98.5	98.5	98.5	98.5	98.7
≥200		79.0	82.3	89.8	92.7	93.7	95.2	96.7	97.5	98.3	98.3	98.5	98.5	98.5	98.5	98.7
≥100		79.0	82.3	89.8	92.7	93.7	95.2	96.7	97.5	98.3	98.3	98.5	98.5	98.5	98.5	98.7
≥50		79.0	82.3	89.8	92.7	93.7	95.2	96.7	97.5	98.3	98.3	98.5	98.5	98.5	98.5	98.7

TOTAL NUMBER OF OBSERVATIONS 606

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

75621 ALCONBURY RAF UK

74-87

APP

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL

CEILING FEET	VISIBILITY STATUTE MILES OR (HUNDREDS OF METERS)															
	21.6	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
NO CEILING + 20000	27.2	27.8	29.7	37.3	30.4	31.0	31.4	31.6	31.9	32.0	32.0	32.0	32.1	32.1	32.4	
2 18000	32.4	33.2	35.5	36.2	36.4	37.1	37.5	37.8	38.2	38.2	38.3	38.3	38.4	38.5	38.8	
2 6000	32.5	33.2	35.6	36.3	36.5	37.2	37.6	37.9	38.3	38.3	38.4	38.4	38.5	38.6	38.9	
2 14000	32.5	33.2	35.6	36.4	36.5	37.2	37.7	38.0	38.3	38.4	38.4	38.5	38.6	38.6	39.0	
2 12000	32.5	33.6	36.1	36.6	36.9	37.6	38.1	38.4	38.8	38.8	38.8	38.9	39.0	39.0	39.4	
2 10000	33.9	34.7	37.3	38.2	38.3	39.1	39.6	39.9	40.3	40.4	40.4	40.5	40.6	40.6	41.0	
2 9000	34.6	35.6	38.3	39.2	39.3	40.2	40.7	41.0	41.4	41.5	41.5	41.6	41.7	41.7	42.1	
2 8000	37.6	38.5	41.4	42.3	42.5	43.4	43.9	44.3	44.8	44.9	44.9	45.1	45.1	45.2	45.5	
2 7000	38.5	39.5	42.5	43.5	43.7	44.6	45.1	45.5	46.0	46.1	46.1	46.2	46.3	46.4	46.8	
2 6000	38.6	39.7	42.7	43.7	43.8	44.8	45.3	45.7	46.2	46.3	46.3	46.4	46.5	46.6	47.0	
2 5000	41.0	42.1	45.4	46.4	46.6	47.8	48.4	48.8	49.4	49.5	49.5	49.6	49.7	49.8	50.2	
2 4500	43.4	44.7	48.3	49.5	49.7	50.9	51.6	52.0	52.7	52.8	52.8	52.9	53.0	53.0	53.4	
2 4000	44.8	50.4	54.4	55.7	55.9	57.3	58.1	58.5	59.1	59.2	59.3	59.4	59.5	59.5	59.9	
2 3500	54.4	56.2	60.6	62.0	62.2	63.8	64.6	65.0	65.7	65.8	65.8	65.9	66.0	66.1	66.5	
2 3000	60.7	62.6	67.3	68.8	69.1	70.9	71.8	72.3	73.1	73.2	73.2	73.3	73.4	73.5	73.9	
2 2500	64.6	66.6	71.8	73.4	73.7	75.6	76.6	77.1	77.9	78.0	78.0	78.2	78.3	78.4	78.8	
2 2000	66.0	70.3	75.7	77.5	77.8	79.8	80.7	81.2	82.1	82.2	82.2	82.3	82.5	82.6	83.0	
2 1800	68.7	71.0	76.5	78.4	78.7	80.7	81.6	82.1	83.0	83.1	83.1	83.3	83.4	83.5	83.9	
2 1600	70.6	73.0	78.9	80.8	81.1	83.1	84.2	84.7	85.6	85.7	85.7	85.9	86.0	86.1	86.5	
2 1400	72.0	75.1	81.4	83.5	83.9	86.0	87.2	87.8	88.6	88.7	88.8	89.0	89.1	89.2	89.6	
2 1200	73.7	76.3	83.6	85.2	85.5	87.8	89.0	89.6	90.6	90.7	90.8	91.0	91.1	91.1	91.6	
2 1000	73.9	76.6	83.4	85.6	86.0	88.2	89.6	90.1	91.1	91.3	91.3	91.5	91.7	91.7	92.1	
2 900	74.4	77.0	84.1	86.4	86.7	89.1	90.5	91.1	92.1	92.2	92.3	92.5	92.6	92.7	93.1	
2 800	74.6	77.4	84.5	87.0	87.4	89.8	91.4	92.0	93.0	93.1	93.2	93.4	93.5	93.6	94.0	
2 700	74.9	77.7	85.2	87.8	88.2	90.8	92.6	93.2	94.3	94.5	94.5	94.7	94.9	94.9	95.3	
2 600	75.1	77.9	85.5	88.2	88.6	91.3	93.2	93.9	95.2	95.3	95.4	95.6	95.8	95.8	96.2	
2 500	75.2	77.9	85.7	88.5	89.0	91.8	93.7	94.7	96.3	96.4	96.5	96.7	96.8	96.9	97.3	
2 400	75.2	77.9	85.7	88.5	89.1	91.9	94.2	95.3	97.3	97.5	97.7	98.0	98.3	98.5	98.9	
2 300	75.2	77.9	85.7	88.5	89.1	91.9	94.2	95.3	97.3	97.5	97.8	98.1	98.4	98.6	99.0	
2 200	75.2	77.9	85.7	88.5	89.1	91.9	94.3	95.3	97.3	97.5	97.8	98.1	98.5	98.6	99.0	

TOTAL NUMBER OF OBSERVATIONS 5987

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIP WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

5521

ALCONBURY RAF UK

74-83

MAY

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1000-2400  
HOURS UTC

CEILING FEET	VISIBILITY: STATUTE MILES OR (HUNDREDS OF METERS)															
	≥10 >16	≥6 GE9	≥5 GE8	≥4 GE6	≥3 GE4	≥2.5 GE3	≥2 GE2	≥1.5 GE1.5	≥1 GE1	≥0.5 GE0.5	≥0.25 GE0.25	≥0.15 GE0.15	≥0.1 GE0.1	≥0.05 GE0.05	≥0.025 GE0.025	≥0.01 GE0.01
≥20000		40.8	43.0	46.4	47.0	47.0	47.6	48.4	48.6	48.8	48.8	49.2	49.8	50.0	50.0	50.4
≥18000		44.4	46.8	51.6	52.2	52.2	53.0	54.2	54.8	55.0	55.0	55.4	56.0	56.2	56.2	56.8
≥16000		44.4	46.8	51.6	52.2	52.2	53.0	54.2	54.8	55.0	55.0	55.4	56.0	56.2	56.2	56.8
≥14000		44.4	46.8	51.6	52.2	52.2	53.0	54.2	54.8	55.0	55.0	55.4	56.0	56.2	56.2	56.8
≥12000		44.4	46.8	51.6	52.2	52.2	53.0	54.2	54.8	55.0	55.0	55.4	56.0	56.2	56.2	56.8
≥10000		44.4	46.8	51.6	52.2	52.2	53.0	54.2	54.8	55.0	55.0	55.4	56.0	56.2	56.2	56.8
≥8000		44.4	46.8	51.6	52.2	52.2	53.0	54.2	54.8	55.0	55.0	55.4	56.0	56.2	56.2	56.8
≥6000		44.4	46.8	51.6	52.2	52.2	53.0	54.2	54.8	55.0	55.0	55.4	56.0	56.2	56.2	56.8
≥4000		44.4	46.8	51.6	52.2	52.2	53.0	54.2	54.8	55.0	55.0	55.4	56.0	56.2	56.2	56.8
≥2000		44.4	46.8	51.6	52.2	52.2	53.0	54.2	54.8	55.0	55.0	55.4	56.0	56.2	56.2	56.8
≥1000		44.4	46.8	51.6	52.2	52.2	53.0	54.2	54.8	55.0	55.0	55.4	56.0	56.2	56.2	56.8
≥500		44.4	46.8	51.6	52.2	52.2	53.0	54.2	54.8	55.0	55.0	55.4	56.0	56.2	56.2	56.8
≥200		44.4	46.8	51.6	52.2	52.2	53.0	54.2	54.8	55.0	55.0	55.4	56.0	56.2	56.2	56.8
≥100		44.4	46.8	51.6	52.2	52.2	53.0	54.2	54.8	55.0	55.0	55.4	56.0	56.2	56.2	56.8
≥50		44.4	46.8	51.6	52.2	52.2	53.0	54.2	54.8	55.0	55.0	55.4	56.0	56.2	56.2	56.8
≥20		44.4	46.8	51.6	52.2	52.2	53.0	54.2	54.8	55.0	55.0	55.4	56.0	56.2	56.2	56.8
≥10		44.4	46.8	51.6	52.2	52.2	53.0	54.2	54.8	55.0	55.0	55.4	56.0	56.2	56.2	56.8
≥5		44.4	46.8	51.6	52.2	52.2	53.0	54.2	54.8	55.0	55.0	55.4	56.0	56.2	56.2	56.8
≥2		44.4	46.8	51.6	52.2	52.2	53.0	54.2	54.8	55.0	55.0	55.4	56.0	56.2	56.2	56.8
≥1		44.4	46.8	51.6	52.2	52.2	53.0	54.2	54.8	55.0	55.0	55.4	56.0	56.2	56.2	56.8
≥0.5		44.4	46.8	51.6	52.2	52.2	53.0	54.2	54.8	55.0	55.0	55.4	56.0	56.2	56.2	56.8
≥0.25		44.4	46.8	51.6	52.2	52.2	53.0	54.2	54.8	55.0	55.0	55.4	56.0	56.2	56.2	56.8
≥0.15		44.4	46.8	51.6	52.2	52.2	53.0	54.2	54.8	55.0	55.0	55.4	56.0	56.2	56.2	56.8
≥0.1		44.4	46.8	51.6	52.2	52.2	53.0	54.2	54.8	55.0	55.0	55.4	56.0	56.2	56.2	56.8
≥0.05		44.4	46.8	51.6	52.2	52.2	53.0	54.2	54.8	55.0	55.0	55.4	56.0	56.2	56.2	56.8
≥0.025		44.4	46.8	51.6	52.2	52.2	53.0	54.2	54.8	55.0	55.0	55.4	56.0	56.2	56.2	56.8
≥0.01		44.4	46.8	51.6	52.2	52.2	53.0	54.2	54.8	55.0	55.0	55.4	56.0	56.2	56.2	56.8

TOTAL NUMBER OF OBSERVATIONS 500

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIF WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

15621 ALCONBURY RAF UK

74-83

MAY

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

3300-3500  
HOURS 1-51

CEILING FEET	VISIBILITY - STATUTE MILES OR (HUNDREDS OF METERS)															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1.25	≥1	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05
NO CEILING	27.3	29.5	35.5	36.7	37.0	38.2	38.8	39.4	40.0	40.2	40.4	40.6	41.3			
≥ 20000	31.3	33.4	40.4	41.6	41.9	43.6	44.6	45.6	46.4	46.4	46.8	47.0	47.4	48.3		
≥ 18000	31.3	33.4	40.4	41.6	41.9	43.6	44.6	45.6	46.4	46.4	46.8	47.0	47.4	48.3		
≥ 16000	31.3	33.4	40.4	41.6	41.9	43.6	44.6	45.6	46.4	46.4	46.8	47.0	47.4	48.3		
≥ 14000	31.3	33.4	40.4	41.6	41.9	43.6	44.6	45.6	46.4	46.4	46.8	47.0	47.4	48.3		
≥ 12000	31.3	33.4	40.4	41.6	41.9	43.6	44.6	45.6	46.4	46.4	46.8	47.0	47.4	48.3		
≥ 10000	32.6	35.3	42.5	43.7	44.0	46.7	47.0	48.7	48.9	48.9	49.3	49.5	49.5	49.9	50.9	
≥ 9000	33.8	36.5	43.9	45.3	45.6	47.6	48.6	49.5	50.5	50.5	50.9	51.1	51.1	51.5	52.4	
≥ 8000	35.5	38.2	46.0	47.4	47.7	49.7	50.7	51.7	52.6	52.6	53.0	53.2	53.2	53.8	54.7	
≥ 7000	35.9	38.6	46.4	47.8	48.1	50.1	51.3	52.2	53.1	53.1	53.5	53.8	53.8	54.3	55.2	
≥ 6000	37.0	39.8	48.0	49.7	49.9	52.2	53.4	54.4	55.5	55.5	55.9	56.1	56.1	56.7	57.6	
≥ 5000	34.8	42.7	51.1	53.0	53.2	55.9	57.1	58.1	59.2	59.2	59.6	59.8	59.8	60.4	61.3	
≥ 4500	43.7	46.9	55.9	57.9	58.3	60.9	62.1	63.1	64.2	64.2	64.6	64.9	64.9	65.8	66.3	
≥ 4000	45.6	47.1	59.0	61.3	61.7	64.3	65.5	66.7	67.9	67.9	68.3	68.6	68.6	69.1	70.0	
≥ 3500	48.3	52.3	62.6	65.0	65.4	68.2	69.4	70.5	71.9	71.9	72.3	72.5	72.5	73.1	74.0	
≥ 3000	51.7	55.7	66.1	68.7	69.1	71.9	73.1	74.2	75.6	75.6	76.2	76.2	76.2	76.8	77.7	
≥ 2500	54.4	58.8	69.4	72.3	72.7	75.7	77.0	78.2	79.5	79.5	79.9	80.2	80.3	80.9	81.8	
≥ 2000	54.8	59.2	69.7	72.7	73.1	76.1	77.4	78.6	79.9	79.9	80.3	80.6	80.7	81.2	82.2	
≥ 1800	56.1	60.9	72.0	75.3	75.7	78.7	80.1	81.2	82.6	82.6	83.0	83.2	83.4	83.9	84.8	
≥ 1600	57.2	62.2	73.7	77.0	77.4	80.7	82.3	83.5	84.8	84.8	85.2	85.5	85.6	86.1	87.1	
≥ 1400	58.5	63.5	75.3	78.6	79.0	82.3	84.1	85.5	86.8	86.8	87.2	87.5	87.6	88.1	89.0	
≥ 1200	58.9	63.9	75.8	79.1	79.5	82.8	84.7	86.1	87.5	87.5	87.8	88.1	88.2	88.8	89.7	
≥ 1000	59.1	64.1	76.5	79.8	80.2	83.6	85.5	86.9	88.2	88.2	88.8	89.0	89.2	89.7	90.6	
≥ 900	59.6	64.7	77.4	80.7	81.1	84.5	86.4	87.8	89.3	89.3	89.8	90.1	90.2	90.8	91.7	
≥ 800	59.7	64.9	78.6	82.0	82.4	85.8	87.7	89.1	90.5	90.5	91.0	91.3	91.5	92.0	92.9	
≥ 700	60.0	65.1	79.0	82.6	83.1	86.8	88.7	90.0	92.3	92.3	93.0	93.3	93.4	94.1	95.0	
≥ 600	61.4	65.7	79.7	83.2	83.8	87.5	89.8	91.8	93.7	93.7	94.3	94.6	94.7	95.4	96.3	
≥ 500	61.4	65.7	79.7	83.2	83.8	87.6	90.0	91.9	93.8	93.8	94.5	94.7	94.8	95.9	97.0	
≥ 400	61.4	65.7	79.8	83.4	83.9	87.7	90.1	92.1	93.9	93.9	94.6	95.1	95.4	96.6	98.3	
≥ 300	61.4	65.7	79.8	83.4	83.9	87.7	90.1	92.1	93.9	93.9	94.6	95.2	95.6	97.1	99.9	
≥ 200	61.4	65.7	79.8	83.4	83.9	87.8	90.2	92.2	94.1	94.1	94.7	95.4	95.8	97.2	100.0	

TOTAL NUMBER OF OBSERVATIONS 757

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AFM WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

75621  
STATION

ALCONBURY RAF UK  
STATION NAME

74-83  
YEARS

MAY  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

622-2800  
FORM 11

CEILING FEET	VISIBILITY STATUTE MILES OR (HUNDREDS OF METERS)															
	≥10 >16	≥6 GE9	≥4 GE8	≥3 GE6	≥2.5 GE4.8	≥2 GE4	≥1.5 GE3.2	≥1.25 GE2.4	≥1 GE2	≥0.75 GE1.6	≥0.5 GE1.2	≥0.4 GE1.0	≥0.3 GE0.8	≥0.25 GE0.5	≥0.2 GE0.4	≥0.15 GE0.3
NO CEILING		24.6	26.1	30.5	32.1	32.1	32.4	33.4	33.7	33.7	33.8	33.9	33.9	33.9	34.0	34.8
≥ 20000		29.8	31.3	36.5	38.3	38.3	39.1	39.9	40.1	40.2	40.3	40.5	40.5	40.5	40.6	41.3
≥ 18000		29.6	31.3	36.5	38.3	38.3	39.1	39.9	40.1	40.2	40.3	40.5	40.5	40.5	40.6	41.3
≥ 16000		29.8	31.3	36.5	38.3	38.3	39.1	39.9	40.1	40.2	40.3	40.5	40.5	40.5	40.6	41.3
≥ 14000		29.9	31.5	36.6	38.4	38.4	39.2	40.0	40.2	40.3	40.5	40.6	40.6	40.6	40.7	41.4
≥ 12000		30.7	32.3	37.4	39.2	39.2	40.2	40.9	41.2	41.3	41.4	41.6	41.6	41.6	41.7	42.4
≥ 10000		32.8	34.4	39.7	41.6	41.6	42.5	43.3	43.5	43.6	43.7	43.9	43.9	43.9	44.0	44.7
≥ 9000		33.2	34.9	40.6	42.4	42.4	43.4	44.1	44.3	44.5	44.6	44.7	44.7	44.7	44.8	45.6
≥ 8000		36.9	38.6	45.0	46.9	46.9	48.0	48.7	49.0	49.1	49.3	49.5	49.5	49.7	49.8	50.5
≥ 7000		36.4	40.1	46.5	49.5	48.5	49.6	50.3	50.5	50.7	50.9	51.0	51.0	51.3	51.4	52.1
≥ 6000		38.4	47.1	46.5	48.5	48.5	49.6	50.3	50.5	50.7	50.9	51.0	51.0	51.3	51.4	52.1
≥ 5000		40.3	47.0	49.0	51.0	51.0	52.5	53.3	53.6	53.7	53.9	54.1	54.1	54.3	54.4	55.2
≥ 4500		42.2	43.9	51.2	53.5	53.5	54.9	55.8	56.0	56.1	56.4	56.5	56.5	56.7	56.9	57.6
≥ 4000		44.1	46.2	53.9	56.5	56.5	58.4	59.3	59.8	60.0	60.3	60.4	60.4	60.6	60.8	61.5
≥ 3500		46.3	48.4	56.6	59.3	59.4	61.4	62.2	62.7	62.9	63.2	63.3	63.3	63.5	63.7	64.4
≥ 3000		50.2	52.2	61.0	63.8	64.0	66.1	67.1	67.6	67.9	68.3	68.4	68.5	68.8	68.9	69.6
≥ 2500		53.0	55.0	63.8	66.8	67.1	69.1	70.1	70.7	71.1	71.4	71.6	71.7	71.9	72.1	72.8
≥ 2000		55.6	58.0	67.6	70.6	70.8	72.9	73.9	74.5	74.8	75.2	75.3	75.5	75.7	75.9	76.8
≥ 1800		56.6	58.8	68.8	71.8	72.1	74.1	75.1	75.7	76.1	76.4	76.5	76.7	76.9	77.2	78.0
≥ 1600		59.1	61.4	72.2	75.2	75.5	77.8	78.9	79.5	79.8	80.2	80.3	80.4	80.7	81.0	81.9
≥ 1400		61.7	64.0	75.3	78.4	78.7	81.0	82.1	82.7	83.1	83.5	83.6	83.7	84.0	84.3	85.2
≥ 1200		63.2	65.5	77.0	80.1	80.4	82.9	84.0	84.6	84.9	85.3	85.4	85.5	85.8	86.1	87.0
≥ 1000		63.7	66.0	77.9	81.0	81.4	84.0	85.1	85.8	86.1	86.5	86.6	86.8	87.0	87.4	88.2
≥ 900		63.9	66.2	78.6	81.9	82.3	84.9	86.1	86.9	87.4	87.7	87.8	88.0	88.2	88.6	89.4
≥ 800		63.9	66.3	79.0	82.5	82.9	85.7	87.0	87.8	88.3	88.7	88.8	88.9	89.2	89.6	90.4
≥ 700		64.3	66.7	79.6	83.2	83.7	87.2	88.8	89.7	90.5	90.9	91.0	91.1	91.4	91.7	92.6
≥ 600		64.4	67.0	80.0	84.0	84.6	88.2	89.8	90.8	91.9	92.3	92.5	92.7	93.0	93.3	94.2
≥ 500		64.9	67.6	80.7	84.9	85.5	89.2	90.8	91.9	93.3	93.8	93.9	94.2	94.4	94.8	95.9
≥ 400		64.9	67.6	80.7	84.9	85.5	89.2	90.8	91.9	93.3	93.8	94.3	94.5	95.3	95.6	97.1
≥ 300		64.9	67.6	80.7	84.9	85.5	89.2	90.8	91.9	93.3	93.8	94.3	94.5	95.3	95.6	97.1
≥ 200		64.9	67.6	80.7	84.9	85.5	89.2	90.8	91.9	93.3	93.8	94.3	94.5	95.3	95.6	97.1
≥ 100		64.9	67.6	80.7	84.9	85.5	89.2	90.8	91.9	93.3	93.8	94.3	94.5	95.3	95.6	97.1
≥		64.9	67.6	80.7	84.9	85.5	89.2	90.8	91.9	93.3	93.8	94.3	94.5	95.3	95.6	97.1

TOTAL NUMBER OF OBSERVATIONS 623

GLOPAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION 25621 ALCONBURY RAF UK

74-63

MAY

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

900-1100  
HOURS 1-1

CEILING FEET	VISIBILITY STATUTE MILES																OR (HUNDREDS OF METERS)			
	≥10	20	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8
≥10000	27.7	28.1	29.4	30.0	30.2	30.4	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5
9000	34.7	35.4	37.2	37.8	38.0	38.2	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4
8000	34.8	35.5	37.3	37.9	38.1	38.3	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6
7000	34.8	35.5	37.3	37.9	38.1	38.3	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6
6000	35.6	36.3	38.2	38.9	39.1	39.4	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6
5000	37.5	38.3	40.5	41.2	41.4	41.6	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9
4000	39.4	40.2	42.4	43.1	43.4	43.6	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8
3000	42.2	43.1	46.0	46.7	46.9	47.1	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
2000	44.1	45.0	47.8	48.5	48.7	49.1	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
1000	45.0	45.9	48.7	49.4	49.7	50.0	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2
500	47.0	47.9	51.4	52.2	52.4	52.9	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1
400	48.2	49.1	52.5	53.3	53.5	54.0	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
300	51.2	54.7	58.4	59.4	59.6	60.2	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5
200	60.0	61.9	64.6	65.7	66.0	66.7	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
100	66.5	67.5	71.5	72.7	73.0	73.7	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1
50	69.6	70.7	74.9	76.1	76.4	77.1	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
20	73.0	74.8	79.2	80.3	80.7	81.4	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
10	74.4	75.6	80.0	81.1	81.5	82.2	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
5	76.1	77.7	84.8	86.3	86.6	87.4	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9
2	80.3	81.9	87.6	89.2	89.7	90.6	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
1	81.1	82.8	89.5	91.3	91.9	93.7	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
0.5	81.1	83.0	89.8	91.8	92.3	93.8	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
0.2	81.7	83.6	91.1	93.2	93.8	95.3	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
0.1	81.7	83.6	91.2	93.4	93.9	95.8	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
0.05	81.7	83.6	91.3	93.6	94.2	96.2	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
0.02	81.7	83.8	91.4	93.7	94.3	96.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
0.01	81.7	83.8	91.4	93.7	94.3	96.5	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
0.005	81.7	83.8	91.4	93.7	94.3	96.5	97.8	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
0.002	81.7	83.8	91.4	93.7	94.3	96.5	97.8	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
0.001	81.7	83.8	91.4	93.7	94.3	96.5	97.8	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9

TOTAL NUMBER OF OBSERVATIONS 878

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

75521

ALCONBURY RAF UK

74-83

MAY

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400  
HOURS LT

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
NO CEILING	>16	GE97	GE85	GE60	GE48	GE47	GE32	GE24	GE27	GE16	GE12	GE12	GE08	GE05	GE04	GE02
≥20000		26.3	28.7	29.4	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5
18000		35.1	35.8	36.8	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0
16000		35.3	36.1	37.1	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2
14000		35.4	36.2	37.2	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3
12000		35.8	36.6	37.6	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7
10000		39.5	39.3	40.3	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4
9000		47.0	47.8	42.1	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2
8000		43.1	44.1	45.5	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
7000		44.6	45.6	47.1	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3
6000		44.7	45.8	47.3	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5
5000		47.9	49.1	50.6	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
4500		49.5	50.6	52.2	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
4000		58.7	59.8	61.4	61.7	61.7	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8
3500		68.8	69.9	71.7	72.1	72.1	72.4	72.5	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6
3000		78.4	79.7	82.4	82.8	82.8	83.7	83.1	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
2500		81.9	83.2	85.9	86.3	86.3	86.6	86.7	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
2000		84.7	86.2	89.1	89.6	89.6	89.8	89.9	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
1800		95.5	87.2	90.2	90.7	90.7	90.9	91.0	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
1600		87.9	89.9	93.6	94.0	94.0	94.2	94.5	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
1400		89.2	91.5	95.6	96.1	96.1	96.4	96.6	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
1200		89.2	91.7	96.2	97.0	97.1	97.6	97.9	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
1000		89.2	91.7	96.2	97.0	97.1	97.6	97.9	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1
900		89.2	91.7	96.7	97.4	97.4	97.6	98.1	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7
800		89.2	91.7	96.7	97.4	97.4	97.6	98.1	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7
700		89.2	91.7	96.7	97.4	97.4	97.6	98.1	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7
600		89.2	91.7	96.7	97.4	97.4	97.6	98.1	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7
500		89.2	91.7	96.7	97.4	97.4	97.6	98.1	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7
400		89.2	91.7	96.7	97.4	97.4	97.6	98.1	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7
300		89.2	91.7	96.7	97.4	97.4	97.6	98.1	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7
200		89.2	91.7	96.7	97.4	97.4	97.6	98.1	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7
100		89.2	91.7	96.7	97.4	97.4	97.6	98.1	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7

TOTAL NUMBER OF OBSERVATIONS 901

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

75623

ALCONBURY RAF UK

74-87

MAY

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
≥10000	30.5	31.7	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4
2 18000	40.2	41.1	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8
2 16000	40.3	41.3	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9
2 14000	40.3	41.3	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9
2 12000	41.1	42.1	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8
2 10000	44.1	45.1	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8
2 9000	45.1	46.2	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
2 8000	51.2	51.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3
2 7000	51.2	52.5	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4
2 6000	52.0	53.2	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
2 5000	54.9	56.1	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
2 4500	58.6	60.0	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5
2 4000	67.6	68.9	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5
2 3500	75.3	76.7	78.3	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4
2 3000	84.4	86.1	87.9	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
2 2500	87.0	88.9	91.2	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
2 2000	88.5	90.4	93.0	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
2 1800	89.1	91.0	93.6	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
2 1600	91.4	93.3	96.2	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
2 1400	91.5	93.4	96.3	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
2 1200	91.5	93.4	96.3	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
2 1000	91.5	93.4	96.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
2 900	91.5	93.4	96.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
2 800	91.5	93.4	96.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
2 700	91.5	93.4	96.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
2 600	91.5	93.4	96.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
2 500	91.5	93.4	96.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
2 400	91.5	93.4	96.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
2 300	91.5	93.4	96.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
2 200	91.5	93.4	96.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
2 100	91.5	93.4	96.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
2 00	91.5	93.4	96.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3

TOTAL NUMBER OF OBSERVATIONS

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



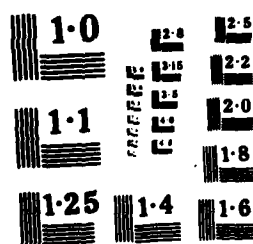
(UNCLASSIFIED)

ALCONBURY RAF UNITED KINGDOM REVISED UNIFORM SUMMARY OF  
SURFACE WEATHER (L) (U) AIR FORCE ENVIRONMENTAL  
TECHNICAL APPLICATIONS CENTER SCOTT A. APR 84  
USAF/AFAC/DS 84/014 SRI AD-F850 743 F/G 4/2

3/5

f / G 4 / 2

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GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

5621

ALCONBURY RAF UK

74-87

MAY

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1820-2000

CEILING FEET	VISIBILITY STATUTE MILES OR (HUNDREDS OF METERS)															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥2	≥2	≥2	≥2	≥2	≥2	≥2	≥2	≥2
NO CEILING	16	GE9	GE8	GE6	GE4	GE3	GE2	GE1	GE1	GE1	GE1	GE1	GE1	GE1	GE1	GE1
≥ 20000	40.7	41.4	42.9	43.7	43.3	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4
≥ 18000	48.2	49.7	50.5	50.9	51.4	51.7	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8
≥ 16000	48.2	49.7	50.5	50.9	51.4	51.7	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8
≥ 14000	48.3	49.1	50.6	51.0	51.6	51.8	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
≥ 12000	48.6	49.4	50.9	51.3	51.6	52.1	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2
≥ 10000	51.6	52.5	54.1	54.6	55.1	55.4	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
≥ 9000	53.3	54.3	56.1	56.5	57.0	57.3	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
≥ 8000	56.6	59.9	62.0	62.4	63.0	63.3	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4
≥ 7000	59.7	61.0	63.1	63.5	64.1	64.4	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
≥ 6000	60.0	61.2	63.4	63.8	64.4	64.6	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8
≥ 5000	63.4	64.8	66.9	67.3	67.9	68.2	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3
≥ 4500	66.7	68.2	70.3	70.7	71.3	71.6	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
≥ 4000	72.9	74.4	77.1	77.6	78.1	78.4	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5
≥ 3500	78.6	80.1	83.1	83.5	84.1	84.4	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
≥ 3000	83.0	84.8	87.9	88.4	89.0	89.4	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
≥ 2500	84.6	86.4	89.7	90.2	90.7	91.2	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 2000	86.4	88.2	91.8	92.4	93.1	93.5	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 1800	87.2	89.0	92.7	93.2	93.9	94.3	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
≥ 1600	87.9	89.8	93.6	94.3	95.1	95.6	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
≥ 1400	88.7	90.6	94.7	95.8	96.6	97.1	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 1200	89.0	91.0	95.2	96.3	97.1	97.7	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 1000	89.1	91.1	95.2	96.5	97.3	97.8	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 900	89.1	91.2	95.4	96.9	97.8	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 800	89.1	91.2	95.4	96.9	97.8	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 700	89.1	91.2	95.4	97.0	98.0	98.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 600	89.1	91.2	95.4	97.0	98.0	98.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 500	89.1	91.2	95.4	97.0	98.0	98.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 400	89.1	91.2	95.4	97.0	98.0	98.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 300	89.1	91.2	95.4	97.0	98.0	98.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 200	89.1	91.2	95.4	97.0	98.0	98.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 100	89.1	91.2	95.4	97.0	98.0	98.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 50	89.1	91.2	95.4	97.0	98.0	98.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8

TOTAL NUMBER OF OBSERVATIONS 735

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIP WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

75521

ALCONBURY RAF UK

74-83

MAY

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300

CEILING FEET	VISIBILITY STATUTE MILES OR (HUNDREDS OF METERS)															
	≥10 >16	≥6 GF9	≥5 GF8	≥4 GF6	≥3 GF4B	≥2.5 GF4D	≥2 GF32	≥1.5 GF24	≥1 GF20	≥1 GF16	≥.75 GF12	≥.5 GF10	≥.25 GF8	≥.16 GF5	≥.1 GF4	≥.05 GF0
NO CEILING		47.0	42.9	44.6	45.7	45.1	45.9	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3
≥ 20000		47.2	49.7	52.1	52.4	52.6	53.7	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
≥ 18000		47.1	49.7	52.1	52.4	52.6	53.7	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
≥ 16000		47.1	49.7	52.1	52.4	52.6	53.7	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
≥ 14000		47.1	49.7	52.1	52.4	52.6	53.7	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
≥ 12000		47.1	49.7	52.1	52.4	52.6	53.7	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
≥ 10000		49.8	52.6	55.0	55.4	55.5	56.7	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
≥ 9000		50.6	53.4	55.8	56.2	56.3	57.5	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
≥ 8000		53.6	56.3	59.3	59.6	59.7	60.9	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5
≥ 7000		54.4	57.1	60.1	60.4	60.6	61.7	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
≥ 6000		54.7	57.5	60.4	60.7	60.9	62.0	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
≥ 5000		56.9	61.7	64.6	64.9	65.1	66.2	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9
≥ 4500		62.2	64.9	67.9	68.2	68.3	69.5	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
≥ 4000		62.5	65.6	68.1	68.4	68.6	69.8	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4
≥ 3500		73.4	76.9	80.8	81.2	81.3	82.5	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1
≥ 3000		76.5	80.0	84.1	84.7	84.9	86.0	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
≥ 2500		77.9	81.7	86.0	86.7	86.9	88.1	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
≥ 2000		75.4	83.1	88.0	88.8	89.0	90.1	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 1800		80.2	83.9	88.8	89.6	89.8	90.9	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 1500		81.2	84.9	90.1	91.1	91.2	92.4	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
≥ 1200		81.7	85.4	90.7	92.0	92.4	93.5	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 1000		82.8	86.7	92.2	93.5	93.8	95.0	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
≥ 900		82.8	86.7	92.2	93.5	93.8	95.0	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
≥ 800		83.4	87.3	92.9	94.5	94.8	96.1	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥ 700		84.1	88.0	93.5	95.1	95.5	96.8	97.7	97.9	97.9	97.9	97.9	97.9	98.1	98.1	98.1
≥ 600		84.1	88.0	93.8	95.5	95.8	97.1	98.1	98.2	98.2	98.2	98.2	98.2	98.4	98.4	98.4
≥ 500		84.1	88.0	93.8	95.5	95.8	97.1	98.1	98.2	98.2	98.2	98.2	98.2	98.4	98.4	98.4
≥ 400		84.1	88.0	93.8	95.5	95.8	97.1	98.1	98.2	98.2	98.2	98.2	98.2	98.4	98.4	98.4
≥ 300		84.1	88.0	93.8	95.5	95.8	97.1	98.1	98.2	98.2	98.2	98.2	98.2	98.4	98.4	98.4
≥ 200		84.1	88.0	93.8	95.5	95.8	97.2	98.2	98.7	99.4	99.4	99.4	99.4	99.8	99.8	99.8
≥ 100		84.1	88.0	93.8	95.6	95.9	97.4	98.4	98.9	99.5	99.5	99.5	99.5	100.0	100.0	100.0
≥ 0		84.1	88.0	93.8	95.6	95.9	97.4	98.4	98.9	99.5	99.5	99.5	99.5	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 616

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

35621  
STATION

ALCONBURY RAF UK  
STATION NAME

74-83  
YEARS

MAY  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL  
HOURS U.S.T.

CEILING FEET	VISIBILITY: STATUTE MILES OR (HUNDREDS OF METERS)															
	≥ 10 > 16	26 GE9	25 GE8	24 GE6	23 GE48	22 GE40	21 GE32	20 GE24	19 GE20	18 GE16	17 GE12	16 GE10	15 GE8	14 GE5	13 GE34	12 GE2
NO CEILING ≥ 20000		31.8	33.1	35.3	35.9	36.0	36.4	36.7	36.9	36.9	36.9	37.0	37.1	37.1	37.1	37.4
≥ 18000		38.1	39.5	42.4	43.0	43.2	43.8	44.2	44.4	44.5	44.6	44.7	44.7	44.8	44.8	45.1
≥ 16000		38.2	39.6	42.5	43.1	43.2	43.8	44.3	44.5	44.6	44.6	44.7	44.8	44.8	44.9	45.1
≥ 14000		38.2	39.6	42.5	43.1	43.3	43.8	44.3	44.5	44.6	44.6	44.7	44.8	44.8	44.9	45.1
≥ 12000		38.2	39.6	42.5	43.2	43.3	43.9	44.3	44.5	44.7	44.7	44.8	44.9	44.9	44.9	45.2
≥ 10000		38.8	40.2	43.1	43.7	43.9	44.5	44.9	45.1	45.2	45.2	45.3	45.4	45.4	45.5	45.8
≥ 9000		41.9	42.5	45.5	46.2	46.3	46.9	47.4	47.6	47.7	47.8	47.8	47.9	47.9	48.0	48.3
≥ 8000		42.1	43.7	46.9	47.6	47.7	48.3	48.8	49.1	49.1	49.2	49.3	49.3	49.4	49.7	
≥ 7000		45.4	47.1	50.7	51.4	51.5	52.2	52.6	52.8	53.0	53.1	53.2	53.2	53.3	53.6	
≥ 6000		46.6	48.2	51.9	52.6	52.7	53.4	53.8	54.1	54.2	54.2	54.3	54.4	54.5	54.5	54.8
≥ 5000		46.9	48.6	52.2	52.9	53.1	53.7	54.2	54.4	54.5	54.6	54.7	54.8	54.8	54.9	55.1
≥ 4500		49.5	51.2	55.1	55.9	56.1	56.8	57.3	57.5	57.7	57.8	57.9	57.9	58.0	58.1	58.3
≥ 4000		52.1	53.8	57.9	58.7	58.8	59.7	60.1	60.4	60.5	60.6	60.7	60.8	60.8	60.9	61.1
≥ 3500		58.1	60.1	64.4	65.4	65.6	66.5	67.1	67.2	67.4	67.5	67.6	67.7	67.7	67.8	68.1
≥ 3000		63.4	65.4	70.2	71.2	71.4	72.4	72.9	73.2	73.4	73.5	73.6	73.7	73.7	73.8	74.1
≥ 2500		69.0	71.2	76.3	77.4	77.6	78.7	79.2	79.5	79.8	79.8	79.9	80.0	80.1	80.2	80.4
≥ 2000		71.7	74.1	79.3	80.5	80.8	81.6	82.4	82.7	82.9	83.0	83.1	83.2	83.2	83.3	83.6
≥ 1800		74.2	76.7	82.3	83.5	83.8	84.8	85.5	85.7	86.0	86.0	86.1	86.3	86.3	86.4	86.7
≥ 1600		75.0	77.5	83.2	84.4	84.6	85.7	86.3	86.6	86.9	86.9	87.0	87.1	87.2	87.3	87.6
≥ 1500		76.8	79.5	85.7	87.2	87.4	88.6	89.2	89.5	89.8	89.8	89.9	90.0	90.1	90.2	90.5
≥ 1200		78.2	81.0	87.6	89.1	89.4	90.7	91.4	91.7	91.9	92.1	92.2	92.2	92.3	92.4	92.7
≥ 1000		79.0	81.8	88.8	90.5	90.8	92.1	92.9	93.2	93.5	93.5	93.6	93.7	93.8	93.9	94.2
≥ 900		79.1	82.0	89.0	90.8	91.1	92.5	93.3	93.7	94.0	94.0	94.1	94.2	94.3	94.4	94.7
≥ 800		79.4	82.3	89.7	91.6	91.9	93.4	94.2	94.6	94.9	95.0	95.1	95.2	95.3	95.4	95.7
≥ 700		79.6	82.5	89.9	91.9	92.3	93.9	94.7	95.1	95.5	95.6	95.7	95.8	95.9	96.0	96.3
≥ 600		79.7	82.6	90.3	92.3	92.7	94.5	95.5	95.9	96.4	96.5	96.6	96.7	96.8	96.9	97.2
≥ 500		79.7	82.7	90.4	92.5	93.0	94.8	95.9	96.4	96.9	97.0	97.1	97.3	97.3	97.5	97.8
≥ 400		79.9	82.8	90.6	92.8	93.2	95.1	96.2	96.8	97.6	97.7	97.8	98.0	98.1	98.2	98.5
≥ 300		79.9	82.8	90.6	92.8	93.2	95.1	96.3	96.9	97.8	97.9	98.1	98.3	98.4	98.6	99.0
≥ 200		79.9	82.8	90.6	92.8	93.2	95.1	96.3	96.9	97.9	98.1	98.3	98.6	98.8	99.1	99.6
≥ 100		79.9	82.8	90.6	92.8	93.2	95.1	96.3	97.0	98.0	98.1	98.3	98.6	98.9	99.2	100.0
≥ 0		79.9	82.8	90.6	92.8	93.2	95.2	96.4	97.0	98.0	98.1	98.3	98.6	98.9	99.3	100.0

TOTAL NUMBER OF OBSERVATIONS 6069

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR FATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

75621

ALCONBURY RAF UK

73-82

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0000-0200  
HOURS LST

CEILING FEET	VISIBILITY STATUTE MILES OR (HUNDREDS OF METERS)															
	≥10	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
≥20000	44.2	45.1	49.7	51.6	50.6	52.0	52.9	52.9	53.1	53.1	53.1	53.3	53.3	53.3	53.3	53.3
18000	47.2	48.1	54.4	55.2	55.2	56.7	57.5	57.5	57.7	57.7	57.7	57.9	57.9	57.9	57.9	57.9
16000	47.2	48.1	54.4	55.2	55.2	56.7	57.5	57.5	57.7	57.7	57.7	57.9	57.9	57.9	57.9	57.9
14000	47.2	48.1	54.4	55.2	55.2	56.7	57.5	57.5	57.7	57.7	57.7	57.9	57.9	57.9	57.9	57.9
12000	47.4	48.3	54.5	55.4	55.4	56.8	57.7	57.7	57.9	57.9	57.9	58.1	58.1	58.1	58.1	58.1
10000	46.7	49.6	56.3	57.2	57.2	58.8	59.7	59.7	59.9	59.9	59.9	60.0	60.0	60.0	60.0	60.0
9000	49.2	50.1	57.4	58.3	58.3	59.9	60.7	60.7	60.9	60.9	60.9	61.1	61.1	61.1	61.1	61.1
8000	51.7	52.6	60.2	61.1	61.1	62.7	63.6	63.6	63.8	63.8	63.8	63.9	63.9	63.9	63.9	63.9
7000	52.4	53.3	61.3	62.2	62.2	63.8	64.7	64.7	64.8	64.8	64.8	65.0	65.0	65.0	65.0	65.0
6000	52.6	53.5	61.5	62.3	62.3	64.1	65.0	65.0	65.2	65.2	65.2	65.4	65.4	65.4	65.4	65.4
5000	54.9	55.8	63.9	64.8	64.8	66.8	67.7	67.7	67.9	67.9	67.9	68.0	68.0	68.0	68.0	68.0
4500	58.1	59.0	67.1	68.0	68.0	70.2	71.2	71.2	71.4	71.4	71.4	71.6	71.6	71.6	71.6	71.6
4000	61.1	62.3	70.9	71.9	71.9	74.6	75.8	75.8	76.0	76.0	76.0	76.2	76.2	76.2	76.2	76.2
3500	63.4	64.7	73.2	74.2	74.2	77.1	78.3	78.3	78.5	78.5	78.5	78.7	78.7	78.7	78.7	78.7
3000	64.3	65.7	74.4	75.5	75.5	78.3	79.8	79.8	79.9	79.9	79.9	80.1	80.1	80.1	80.1	80.1
2500	65.5	67.0	75.7	76.7	76.7	79.6	81.0	81.0	81.2	81.2	81.2	81.3	81.3	81.3	81.3	81.3
2000	67.1	68.6	77.4	78.5	78.5	81.3	82.8	82.8	82.9	82.9	82.9	83.3	83.3	83.3	83.3	83.3
1800	67.3	68.7	77.6	78.7	78.7	81.5	82.9	82.9	83.1	83.1	83.1	83.5	83.5	83.5	83.5	83.5
1600	69.8	71.2	80.3	81.3	81.3	84.4	85.8	85.8	86.0	86.0	86.0	86.3	86.3	86.3	86.3	86.3
1400	71.6	73.0	82.1	83.1	83.1	86.3	87.7	87.7	87.9	87.9	87.9	88.3	88.3	88.3	88.3	88.3
1200	71.6	73.0	82.4	83.7	83.7	86.9	88.3	88.3	88.5	88.5	88.5	88.8	88.8	88.8	88.8	88.8
1000	72.8	74.2	83.7	84.9	84.9	88.3	89.7	89.7	89.9	89.9	89.9	90.2	90.2	90.2	90.2	90.2
900	73.2	74.6	84.0	85.3	85.3	88.6	90.1	90.1	90.2	90.2	90.2	90.6	90.6	90.6	90.6	90.6
800	74.1	75.5	85.1	86.5	86.5	89.8	92.2	92.2	92.9	93.1	93.1	93.4	93.4	93.4	93.4	93.4
700	74.1	75.5	85.1	86.7	86.7	91.1	92.7	92.7	93.8	94.0	94.0	94.5	94.5	94.5	94.5	94.5
600	74.1	75.5	85.1	86.7	86.7	91.7	93.6	93.6	95.4	95.6	95.6	95.9	95.9	95.9	95.9	95.9
500	74.1	75.5	85.4	87.0	87.2	92.4	94.7	94.7	96.3	96.4	96.4	96.6	96.6	96.6	96.6	96.6
400	74.1	75.7	85.6	87.2	87.4	92.7	95.6	95.6	97.7	97.3	97.7	97.7	98.2	98.2	98.2	98.2
300	74.1	75.7	85.6	87.4	87.6	92.9	95.7	95.7	98.0	98.4	98.4	99.1	99.1	99.1	99.1	99.1
200	74.1	75.7	85.6	87.4	87.6	92.9	95.9	95.9	98.2	98.6	98.6	99.3	99.3	99.3	99.3	99.3
100	74.1	75.7	85.6	87.4	87.6	92.9	95.9	95.9	98.2	98.6	98.6	99.3	99.3	99.3	99.3	99.3
0	74.1	75.7	85.6	87.4	87.6	92.9	95.9	95.9	98.2	98.6	98.6	99.3	99.3	99.3	99.3	99.3

TOTAL NUMBER OF OBSERVATIONS 563

USAF ETAC FORM 10-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIP WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

75521  
STATION

ALCONBURY RAF UK  
STATION NAME

73-87  
YEARS

JUN  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

300-0500  
HOURS

CEILING FEET	VISIBILITY: STATUTE MILES OR (HUNDREDS OF METERS)															
	≥10 >10	≥6 GF9	≥5 GF8	≥4 GF6	≥3 GF4	≥2.5 GF3	≥2 GF2	≥1.5 GF1.5	≥1 GF1	≥0.75 GF0.75	≥0.5 GF0.5	≥0.25 GF0.25	≥0.15 GF0.15	≥0.1 GF0.1	≥0.075 GF0.075	≥0.05 GF0.05
NO CEILING ≥ 20000	23.3	25.3	30.7	32.2	32.6	35.5	36.8	37.7	39.0	39.4	39.5	39.5	39.5	39.5	39.5	39.6
≥ 18000	27.1	29.7	35.8	37.6	38.0	41.3	43.1	44.2	46.0	46.4	46.7	46.7	46.8	46.8	46.9	47.1
≥ 16000	27.1	29.7	35.8	37.7	38.1	41.4	43.2	44.4	46.2	46.5	46.8	46.8	46.9	46.9	47.1	47.1
≥ 14000	27.1	29.7	35.8	37.7	38.1	41.6	43.4	44.5	46.3	46.7	46.9	46.9	47.1	47.1	47.1	47.2
≥ 12000	27.2	29.8	35.9	37.9	38.2	41.7	43.5	44.6	46.4	46.8	47.1	47.1	47.2	47.2	47.3	47.3
≥ 10000	28.9	31.8	38.6	40.7	41.0	44.8	46.8	48.7	50.0	50.4	50.6	50.6	50.8	50.8	50.9	50.9
≥ 9000	30.3	33.2	40.3	42.3	42.8	46.7	48.7	49.9	51.9	52.3	52.6	52.6	52.7	52.7	52.8	52.8
≥ 8000	33.1	36.2	43.9	45.9	46.4	50.3	52.4	53.6	55.9	56.3	56.5	56.5	56.6	56.6	56.8	56.8
≥ 7000	34.1	37.3	45.0	47.1	47.6	51.5	53.7	54.9	57.2	57.5	57.8	57.8	57.9	57.9	58.1	58.1
≥ 6000	34.1	37.3	45.1	47.2	47.7	51.7	53.8	55.7	57.3	57.7	57.9	57.9	58.1	58.1	58.2	58.2
≥ 5000	36.0	41.2	49.1	51.2	51.9	56.4	58.7	59.8	62.5	62.9	63.2	63.2	63.3	63.3	63.4	63.4
≥ 4500	41.2	44.4	52.3	54.3	55.1	59.7	62.1	63.3	66.0	66.4	66.6	66.6	66.8	66.8	66.9	66.9
≥ 4000	44.9	48.2	56.9	59.1	59.8	64.7	67.1	68.3	71.0	71.4	71.6	71.7	72.0	72.0	72.1	72.1
≥ 3500	47.8	51.2	60.0	62.1	62.9	67.9	70.5	71.6	74.3	74.7	74.9	75.1	75.3	75.3	75.4	75.4
≥ 3000	49.0	52.3	61.3	63.6	64.5	69.6	72.3	73.4	76.2	76.7	77.0	77.1	77.4	77.4	77.5	77.5
≥ 2500	49.2	52.6	61.6	63.9	64.8	69.9	72.6	73.8	76.6	77.1	77.4	77.5	77.7	77.7	77.9	77.9
≥ 2000	51.0	54.5	63.9	66.2	67.3	72.4	75.3	76.6	79.7	80.2	80.4	80.6	80.8	80.8	80.9	80.9
≥ 1800	51.5	55.0	64.6	66.9	67.9	73.0	76.0	77.2	80.3	80.8	81.1	81.2	81.5	81.5	81.6	81.6
≥ 1500	53.5	57.0	66.6	69.1	70.1	75.2	78.1	79.4	82.5	83.0	83.2	83.4	83.6	83.6	83.8	83.8
≥ 1200	55.1	58.8	68.8	71.2	72.3	77.6	80.9	82.4	85.5	86.1	86.3	86.4	86.7	86.7	86.8	86.8
≥ 1000	56.5	60.4	70.7	73.1	74.2	79.5	83.2	84.8	88.1	88.6	88.9	89.0	89.3	89.3	89.4	89.4
≥ 900	56.8	60.7	71.1	73.5	74.6	79.9	83.8	85.3	88.6	89.1	89.4	89.5	89.8	89.8	89.9	89.9
≥ 800	57.4	61.5	72.0	74.4	75.4	81.1	85.0	86.7	90.0	90.5	90.8	90.9	91.2	91.2	91.3	91.3
≥ 700	57.9	62.0	72.5	75.1	76.2	82.1	86.2	88.1	91.7	92.2	92.5	92.6	92.8	92.8	93.0	93.0
≥ 600	58.2	62.3	72.9	75.6	76.9	83.2	87.3	89.5	93.1	93.6	93.9	94.0	94.2	94.2	94.4	94.4
≥ 500	58.3	62.4	73.3	76.1	77.2	83.8	88.0	90.2	93.7	94.2	94.5	94.6	95.0	95.1	95.3	95.3
≥ 400	58.3	62.4	73.3	76.1	77.2	84.7	88.5	90.7	94.2	94.8	95.0	95.3	95.9	96.0	96.3	96.3
≥ 300	58.3	62.4	73.3	76.1	77.4	84.4	89.0	91.2	95.0	95.5	95.8	96.0	96.2	97.1	97.3	97.6
≥ 200	58.3	62.4	73.3	76.1	77.4	84.4	89.0	91.3	95.3	95.8	96.0	96.4	97.6	98.1	98.7	98.7
≥ 100	58.3	62.4	73.3	76.1	77.4	84.7	89.3	91.7	95.7	96.2	96.4	96.8	98.2	99.7	100.0	100.0
≥ 0	58.3	62.4	73.3	76.1	77.4	84.7	89.3	91.7	95.7	96.2	96.4	96.8	98.2	99.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 782

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIP WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

75621

ALCONBURY RAF UK

73-82

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0600-0800

CEILING (FEET)	VISIBILITY - STATUTE MILES															
	≥ 10	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
NO CEILING	27.8	29.3	32.8	34.4	34.8	36.7	37.2	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1
≥ 20000	32.4	34.5	38.7	40.5	40.8	43.4	43.9	45.0	45.2	45.2	45.2	45.2	45.2	45.5	45.5	45.5
≥ 18000	32.4	34.5	38.7	40.5	40.8	43.4	43.9	45.0	45.2	45.2	45.2	45.2	45.2	45.5	45.5	45.5
≥ 16000	32.4	34.5	38.7	40.5	40.8	43.4	43.9	45.0	45.2	45.2	45.2	45.2	45.2	45.5	45.5	45.5
≥ 14000	32.4	34.5	38.7	40.5	41.0	43.5	44.0	45.1	45.3	45.3	45.3	45.3	45.3	45.6	45.6	45.6
≥ 12000	32.6	34.8	38.9	41.0	41.3	44.1	44.6	45.7	45.9	45.9	45.9	45.9	45.9	46.2	46.2	46.2
≥ 10000	35.2	37.5	41.8	44.1	44.5	47.3	47.9	49.1	49.3	49.3	49.3	49.3	49.3	49.6	49.6	49.6
≥ 9000	36.0	38.4	42.8	45.1	45.5	48.2	48.8	50.1	50.3	50.3	50.3	50.3	50.3	50.5	50.5	50.5
≥ 8000	39.3	41.9	47.0	49.6	49.9	52.8	53.8	55.0	55.4	55.4	55.4	55.4	55.4	55.6	55.6	55.6
≥ 7000	39.8	42.4	47.6	50.2	50.5	53.5	54.4	55.6	56.0	56.0	56.0	56.0	56.0	56.2	56.2	56.2
≥ 6000	39.9	42.5	47.8	50.3	50.7	53.6	54.5	55.8	56.1	56.1	56.1	56.1	56.1	56.4	56.4	56.4
≥ 5000	42.5	45.2	50.5	53.3	53.7	56.7	57.9	59.3	59.6	59.6	59.6	59.6	59.6	59.9	59.9	59.9
≥ 4500	45.2	47.9	53.3	56.1	56.5	59.5	60.7	62.1	62.4	62.4	62.4	62.4	62.4	62.7	62.7	62.7
≥ 4000	49.3	52.2	58.1	61.0	61.3	64.5	65.7	67.0	67.5	67.5	67.5	67.5	67.5	67.9	67.9	67.9
≥ 3500	51.4	54.3	60.1	63.0	63.4	66.5	67.8	69.1	69.6	69.7	69.7	69.7	69.7	69.9	69.9	69.9
≥ 3000	53.9	56.8	63.0	66.1	66.4	69.7	70.9	72.6	73.2	73.3	73.3	73.3	73.3	73.6	73.6	73.6
≥ 2500	55.0	57.9	64.1	67.3	67.6	70.9	72.1	73.8	74.4	74.5	74.5	74.5	74.5	74.8	74.8	74.8
≥ 2000	57.6	60.5	66.8	70.2	70.5	73.8	75.0	76.8	77.8	77.9	77.9	77.9	77.9	78.2	78.2	78.2
≥ 1800	58.2	61.1	67.4	70.8	71.2	74.4	75.6	77.5	78.4	78.5	78.5	78.5	78.5	78.8	78.8	78.8
≥ 1600	60.1	63.0	69.6	73.1	73.5	76.7	78.2	80.0	81.0	81.1	81.1	81.1	81.1	81.3	81.3	81.3
≥ 1400	63.4	66.3	73.1	76.8	77.2	80.5	82.1	84.0	85.0	85.1	85.1	85.1	85.1	85.3	85.3	85.3
≥ 1200	64.8	67.9	75.2	78.9	79.3	82.9	84.8	86.8	87.8	88.0	88.0	88.0	88.0	88.2	88.2	88.2
≥ 1000	65.9	69.0	76.5	80.2	80.6	84.2	86.2	88.1	89.1	89.3	89.3	89.3	89.3	89.6	89.6	89.6
≥ 900	66.2	69.3	77.1	81.2	81.6	85.3	87.4	89.5	90.4	90.7	90.7	90.7	90.7	90.9	90.9	90.9
≥ 800	67.0	70.2	78.3	82.4	82.8	86.7	89.0	91.0	92.0	92.2	92.2	92.2	92.2	92.5	92.5	92.5
≥ 700	67.2	70.4	78.5	82.7	83.0	87.3	89.8	91.9	93.0	93.2	93.2	93.2	93.2	93.5	93.5	93.5
≥ 600	67.2	70.5	79.0	83.3	83.6	88.1	91.0	93.2	94.5	94.8	94.8	94.8	94.8	95.0	95.0	95.0
≥ 500	67.2	70.5	79.0	83.4	83.9	88.5	92.1	94.7	96.4	96.7	97.0	97.0	97.0	97.3	97.3	97.3
≥ 400	67.2	70.5	79.0	83.4	83.9	88.5	92.1	94.7	96.4	96.7	97.0	97.0	97.0	97.3	97.3	97.3
≥ 300	67.2	70.5	79.0	83.4	83.9	88.5	92.1	94.7	96.4	96.7	97.0	97.0	97.0	97.3	97.3	97.3
≥ 200	67.2	70.5	79.0	83.4	83.9	88.5	92.1	94.7	96.4	96.7	97.0	97.0	97.0	97.3	97.3	97.3
≥ 100	67.2	70.5	79.0	83.4	83.9	88.5	92.1	94.7	96.4	96.7	97.0	97.0	97.0	97.3	97.3	97.3
≥ 0	67.2	70.5	79.0	83.4	83.9	88.5	92.1	94.7	96.4	96.7	97.0	97.0	97.0	97.3	97.3	97.3

TOTAL NUMBER OF OBSERVATIONS 825



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

75621  
STATION

ALCONBURY RAF UK  
STATION NAME

73-82  
YEARS

JUN  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

000-1100  
HOURS

CEILING FEET	VISIBILITY STATUTE MILES OR (HUNDREDS OF METERS)															
	≥10 >16	≥6 GE90	≥5 GE80	≥4 GE60	≥3 GE48	≥2.5 GE40	≥2 GE32	≥1.5 GE24	≥1 GE16	≥0.5 GE12	≥0.25 GE10	≥0.15 GE08	≥0.1 GE05	≥0.05 GE04	≥0.025 GE02	≥0.01 GE01
≥20000		29.0	30.0	31.1	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5
≥18000		35.9	36.9	38.4	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0
≥16000		35.9	36.9	38.4	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0
≥14000		35.9	36.9	38.4	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0
≥12000		36.6	37.6	39.6	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1
≥10000		39.2	40.3	42.3	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9
≥9000		39.7	40.7	42.8	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4
≥8000		44.1	45.1	47.3	47.9	47.9	47.9	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0
≥7000		45.6	46.6	48.8	49.4	49.4	49.4	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5
≥6000		45.8	46.8	49.0	49.6	49.6	49.6	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
≥5000		46.2	49.3	51.4	52.0	52.0	52.2	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
≥4500		51.6	52.6	55.1	55.7	55.7	55.9	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
≥4000		59.3	60.4	63.0	63.6	63.6	63.9	64.4	64.4	64.5	64.5	64.5	64.5	64.5	64.5	64.5
≥3500		63.8	64.9	67.5	68.1	68.1	68.4	68.9	68.9	69.0	69.0	69.0	69.0	69.0	69.0	69.0
≥3000		69.3	70.6	73.5	74.2	74.2	74.6	75.1	75.1	75.2	75.2	75.2	75.2	75.2	75.2	75.2
≥2500		73.5	74.7	77.9	78.5	78.5	79.0	79.5	79.5	79.6	79.6	79.6	79.6	79.6	79.6	79.6
≥2000		77.2	78.4	81.8	82.5	82.5	82.9	83.4	83.4	83.5	83.5	83.5	83.5	83.5	83.5	83.5
≥1800		78.1	79.4	82.7	83.4	83.4	83.9	84.3	84.3	84.4	84.4	84.4	84.4	84.4	84.4	84.4
≥1500		82.5	83.7	87.5	88.4	88.4	88.8	89.3	89.3	89.4	89.4	89.4	89.4	89.4	89.4	89.4
≥1200		85.7	87.1	90.9	92.0	92.0	92.6	93.1	93.1	93.2	93.2	93.2	93.2	93.2	93.2	93.2
≥1000		86.7	88.2	92.4	93.9	93.9	94.5	94.9	94.9	95.2	95.2	95.2	95.2	95.2	95.2	95.2
≥900		87.2	88.7	92.8	94.3	94.5	95.0	95.5	95.5	95.7	95.7	95.7	95.7	95.7	95.7	95.7
≥800		87.5	89.0	93.5	95.0	95.2	95.7	96.2	96.2	96.4	96.5	96.5	96.5	96.5	96.5	96.5
≥700		87.8	89.3	94.5	96.1	96.2	96.9	97.5	97.5	97.7	97.8	97.8	97.8	97.8	97.8	97.8
≥600		88.0	89.5	94.7	96.4	96.5	97.2	97.9	98.0	98.3	98.4	98.4	98.4	98.4	98.4	98.4
≥500		88.0	89.5	94.8	96.7	96.8	97.6	98.4	98.8	99.2	99.3	99.3	99.3	99.3	99.3	99.3
≥400		88.0	89.5	94.8	96.8	96.9	97.7	98.5	99.1	99.4	99.5	99.5	99.5	99.5	99.5	99.5
≥300		88.0	89.5	94.8	96.8	96.9	97.8	98.7	99.3	99.8	100.0	100.0	100.0	100.0	100.0	100.0
≥200		88.0	89.5	94.8	96.8	96.9	97.8	98.7	99.3	99.8	100.0	100.0	100.0	100.0	100.0	100.0
≥100		88.0	89.5	94.8	96.8	96.9	97.8	98.7	99.3	99.8	100.0	100.0	100.0	100.0	100.0	100.0
≥0		88.0	89.5	94.8	96.8	96.9	97.8	98.7	99.3	99.8	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 867

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

15621 ALCONBURY RAF UK

73-82

USA

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400  
MAY 1982

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0.025	≥0.01
≥20000	29.8	30.3	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6
≥18000	38.6	39.3	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7
≥16000	38.6	39.3	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7
≥14000	38.6	39.3	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7
≥12000	39.1	39.8	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1
≥10000	41.2	41.9	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5
≥9000	42.1	42.8	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5
≥8000	47.1	47.8	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5
≥7000	48.8	49.5	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2
≥6000	49.2	49.8	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5
≥5000	52.9	53.7	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
≥4500	58.2	59.0	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
≥4000	67.1	67.9	68.8	68.8	68.8	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
≥3500	76.2	77.1	78.0	78.1	78.1	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
≥3000	83.1	84.1	85.1	85.3	85.3	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5
≥2500	85.4	86.4	87.6	87.8	87.8	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥2000	88.2	89.3	91.0	91.2	91.2	91.4	91.4	91.4	91.4	91.5	91.5	91.5	91.5	91.5	91.5	91.5
≥1800	88.7	89.7	91.5	91.8	91.8	92.0	92.0	92.0	92.0	92.1	92.1	92.1	92.1	92.1	92.1	92.1
≥1600	91.1	92.1	94.0	94.2	94.2	94.5	94.5	94.5	94.5	94.6	94.6	94.6	94.6	94.6	94.6	94.6
≥1400	92.8	94.7	96.2	96.6	96.6	96.8	96.8	96.8	96.8	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥1200	93.7	95.0	97.5	98.1	98.1	98.3	98.3	98.3	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4
≥1000	93.9	95.3	97.9	98.4	98.4	98.6	98.6	98.6	98.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥900	94.0	95.4	98.0	98.5	98.5	98.9	98.9	98.9	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥800	94.2	95.6	98.2	98.8	98.8	99.1	99.1	99.1	99.1	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥700	94.2	95.6	98.3	98.9	98.9	99.2	99.2	99.2	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥600	94.2	95.6	98.4	99.0	99.0	99.3	99.3	99.3	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥500	94.2	95.6	98.4	99.1	99.1	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥400	94.2	95.6	98.4	99.1	99.1	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥300	94.2	95.6	98.4	99.1	99.1	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥200	94.2	95.6	98.4	99.1	99.1	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥100	94.2	95.6	98.4	99.1	99.1	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥0	94.2	95.6	98.4	99.1	99.1	99.5	99.5	99.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 885

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

15521 ALCONBURY RAF UK

73-82

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700

CEILING FEET	VISIBILITY STATUTE MILES OR (HUNDREDS OF METERS)															
	>10	20	25	24	23	22	21	20	19	18	17	16	15	14	13	12
>10	29.5	29.5	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2
2000	38.6	39.7	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4
1800	38.6	39.7	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4
1600	38.6	39.7	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4
1400	38.6	39.7	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4
1200	42.2	42.3	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1
1000	43.2	43.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
800	50.3	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5
600	51.8	52.7	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0
400	52.4	52.6	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5
200	58.8	59.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
100	65.3	65.7	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8
50	74.6	75.1	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
25	81.4	81.1	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
10	86.1	86.9	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
5	87.3	88.2	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
2	89.3	90.2	92.1	92.2	92.2	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
1	89.9	91.8	92.7	92.8	92.8	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
0.5	91.2	91.3	94.3	94.4	94.4	94.5	94.7	94.7	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
0.25	92.6	93.7	95.9	96.2	96.2	96.6	96.9	96.9	97.1	97.2	97.3	97.3	97.3	97.3	97.3	97.3
0.1	93.3	94.7	97.0	97.2	97.2	97.7	97.9	97.9	98.0	98.0	98.1	98.1	98.1	98.1	98.1	98.1
0.05	93.4	94.9	97.4	97.7	97.7	98.1	98.4	98.4	98.5	98.5	98.6	98.6	98.6	98.6	98.6	98.6
0.025	93.4	94.9	97.6	97.9	97.9	98.5	98.7	98.7	98.8	98.8	99.0	99.0	99.0	99.0	99.0	99.0
0.01	93.7	95.2	98.0	98.5	98.5	99.1	99.3	99.3	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5
0.005	93.7	95.2	98.0	98.6	98.6	99.2	99.4	99.4	99.5	99.5	99.7	99.7	99.7	99.7	99.7	99.7
0.0025	93.7	95.2	98.0	98.6	98.6	99.4	99.5	99.5	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9
0.001	93.7	95.2	98.0	98.7	98.7	99.4	99.7	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
0.0005	93.7	95.2	98.0	98.7	98.7	99.4	99.7	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
0.00025	93.7	95.2	98.0	98.7	98.7	99.4	99.7	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
0.0001	93.7	95.2	98.0	98.7	98.7	99.4	99.7	99.7	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 861

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

75621

ALCONBURY RAF UK

73-87

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1822-2000  
FOUR YEAR

CEILING FEET	VISIBILITY STATUTE MILES OR (HUNDREDS OF METERS)															
	≥10	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
≥20000	35.4	35.4	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8
20000	42.9	43.3	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
21800	43.2	43.6	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7
22000	43.2	43.6	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7
24000	43.5	43.8	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
25000	44.2	44.6	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8
26000	46.6	47.0	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1
27000	47.9	48.2	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4
28000	53.4	53.8	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
29000	55.8	56.3	57.8	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
30000	56.0	56.5	58.1	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2
31000	60.2	60.7	62.6	62.9	62.9	63.0	63.0	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
32000	65.0	66.0	68.2	68.6	68.7	68.9	68.9	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
33000	73.4	74.1	76.9	77.3	77.4	77.6	77.6	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
34000	76.7	79.5	82.9	83.3	83.4	83.5	83.5	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
35000	83.8	84.7	88.1	88.5	88.6	88.7	88.7	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
36000	84.8	85.7	89.4	89.9	90.0	90.1	90.1	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
37000	86.3	87.3	91.2	91.8	92.0	92.3	92.3	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
38000	87.7	88.7	92.6	93.5	93.6	94.2	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
39000	87.9	89.4	93.5	94.4	94.6	95.5	95.5	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
40000	88.3	89.9	94.5	95.1	95.2	96.2	96.2	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
41000	88.7	90.5	94.9	96.0	96.1	97.3	97.4	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
42000	89.1	90.9	95.3	96.5	96.6	97.8	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
43000	89.1	90.9	95.5	96.6	96.8	97.9	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
44000	89.2	91.1	95.6	97.0	97.1	98.4	98.7	98.8	98.8	99.0	99.0	99.0	99.0	99.0	99.0	99.0
45000	89.2	91.1	95.7	97.1	97.3	98.6	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
46000	89.2	91.1	95.7	97.3	97.5	98.8	99.2	99.4	99.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0
47000	89.2	91.1	95.7	97.3	97.5	98.8	99.2	99.4	99.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0
48000	89.2	91.1	95.7	97.3	97.5	98.8	99.2	99.4	99.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0
49000	89.2	91.1	95.7	97.3	97.5	98.8	99.2	99.4	99.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0
50000	89.2	91.1	95.7	97.3	97.5	98.8	99.2	99.4	99.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 771

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

25521 ALCONBURY RAF UK

73-87

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300  
HOURS

CEILING FEET	VISIBILITY STATUTE MILES																OR (HUNDRETH FEET)			
	≥10 >16	≥6 GE90	≥5 GE80	≥4 GE60	≥3 GE40	≥2.5 GE40	≥2 GE32	≥1.5 GE24	≥1 GE20	≥0.5 GE16	≥0.25 GE12	≥0.1 GE8	≥0.05 GE4	≥0.025 GE2	≥0.01 GE1	≥0.005 GE0.5	≥0.0025 GE0.25	≥0.001 GE0.1	≥0.0005 GE0.05	≥0.00025 GE0.025
≥20000		39.4	40.3	44.2	45.6	45.6	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.6
18000		45.3	46.3	50.7	52.3	52.3	53.2	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.7
16000		45.4	46.5	50.8	52.5	52.5	53.4	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.8
14000		45.4	46.5	50.8	52.5	52.5	53.4	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.8
12000		45.6	46.6	51.0	52.6	52.6	53.5	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	54.0
10000		45.6	46.6	51.0	52.6	52.6	53.5	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	54.0
8000		47.2	48.3	52.8	54.4	54.4	55.5	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.9
7000		48.3	49.3	53.8	55.5	55.5	56.5	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	57.0
6000		53.1	54.1	58.8	60.4	60.4	61.5	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.9
5000		54.3	55.3	60.0	61.9	61.9	63.0	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.4
4500		54.4	55.5	61.1	62.1	62.1	63.1	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.6
4000		56.8	57.9	62.5	64.5	64.5	65.8	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.3
3500		60.3	61.5	66.7	68.7	69.1	70.2	70.3	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.8
3000		65.7	67.0	72.6	74.8	75.3	76.3	76.5	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.9
2500		71.2	71.5	77.4	79.6	80.1	81.3	81.4	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.9
2000		73.8	75.3	81.1	83.4	83.8	85.2	85.5	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.9
1800		75.1	76.6	82.6	84.9	85.3	86.7	87.0	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.4
1600		77.4	78.9	84.9	87.1	87.6	88.9	89.4	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.8
1400		77.5	79.0	85.0	87.3	87.7	89.1	89.5	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	90.0
1200		79.6	81.4	87.6	89.8	90.4	91.9	92.5	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	93.0
1000		81.7	82.6	88.8	91.0	91.6	93.1	93.7	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	94.2
900		81.1	83.1	89.4	91.6	92.2	94.0	94.6	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	95.1
800		82.0	84.0	90.3	92.5	93.1	94.9	95.7	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	96.1
700		82.0	84.0	90.3	92.5	93.1	94.9	95.7	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	96.1
600		82.2	84.1	90.4	92.7	93.3	95.4	96.4	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.9
500		82.2	84.1	90.4	92.7	93.3	95.4	96.4	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.9
400		82.2	84.1	90.4	92.7	93.3	95.4	96.4	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.9
300		82.2	84.1	90.4	92.7	93.3	95.4	96.4	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.9
200		82.2	84.1	90.4	92.7	93.3	95.4	96.4	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.9
100		82.2	84.1	90.4	92.7	93.3	95.4	96.4	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.9
0		82.2	84.1	90.4	92.7	93.3	95.4	96.4	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.9

TOTAL NUMBER OF OBSERVATIONS 667

USAF ETAC FORM 101-64 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

CENTRAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

75221 ALCONBURY PAF UK

73-87

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ELEVATION FEET	VISIBILITY STATUTE MILES															
	210	20	25	24	23	22	21	20	19	18	17	16	15	14	13	12
210	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
20	31.6	30.5	34.9	35.6	35.7	36.5	36.8	37.1	37.2	37.3	37.3	37.3	37.3	37.3	37.3	37.3
25	35.1	39.1	41.9	42.7	42.8	43.8	44.2	44.5	44.8	44.8	44.8	44.8	44.9	44.9	44.9	45.0
24	38.0	39.1	42.1	42.8	42.9	43.9	44.3	44.6	44.8	44.9	44.9	44.9	44.9	45.0	45.0	45.0
23	38.0	39.1	42.0	42.8	42.9	43.9	44.3	44.6	44.8	44.9	44.9	44.9	44.9	45.0	45.0	45.0
22	38.1	39.7	42.1	42.9	43.0	44.0	44.4	44.7	44.9	45.0	45.0	45.0	45.1	45.1	45.1	45.1
21	38.5	39.6	42.5	43.4	43.4	44.5	44.9	45.2	45.4	45.5	45.5	45.5	45.6	45.6	45.6	45.6
20	41.7	41.9	45.0	45.9	46.1	47.1	47.5	47.8	48.2	48.2	48.2	48.3	48.3	48.3	48.4	48.4
19	41.6	42.8	46.1	47.1	47.1	48.2	48.7	49.1	49.3	49.3	49.3	49.4	49.4	49.4	49.5	49.5
18	46.2	47.4	51.0	51.9	52.0	53.1	53.6	53.9	54.3	54.3	54.4	54.4	54.4	54.4	54.5	54.5
17	47.5	48.8	52.4	53.4	53.5	54.6	55.1	55.4	55.8	55.8	55.9	55.9	55.9	55.9	56.0	56.0
16	47.7	49.0	52.6	53.6	53.7	54.9	55.4	55.7	56.1	56.1	56.1	56.2	56.2	56.2	56.3	56.3
15	51.3	52.6	56.4	57.4	57.6	58.9	59.4	59.8	60.2	60.3	60.3	60.3	60.3	60.3	60.4	60.4
14	55.5	56.9	60.8	61.8	62.0	63.3	64.0	64.3	64.7	64.8	64.8	64.8	64.8	64.9	64.9	64.9
13	62.0	63.5	67.8	68.9	69.1	70.6	71.2	71.6	72.0	72.1	72.1	72.1	72.2	72.2	72.3	72.3
12	66.7	68.2	72.6	73.8	74.0	75.5	76.2	76.5	77.0	77.0	77.1	77.1	77.2	77.2	77.2	77.2
11	71.8	72.4	77.0	78.2	78.4	80.1	80.8	81.2	81.6	81.7	81.8	81.8	81.9	81.9	81.9	81.9
10	72.5	74.1	78.8	80.0	80.2	81.9	82.6	83.0	83.4	83.5	83.6	83.6	83.7	83.7	83.7	83.7
9	74.8	76.5	81.4	82.7	82.9	84.6	85.3	85.8	86.3	86.4	86.4	86.5	86.6	86.6	86.6	86.6
8	75.4	77.1	82.0	83.4	83.6	85.3	86.0	86.5	87.0	87.1	87.2	87.2	87.3	87.3	87.3	87.3
7	77.5	79.3	84.5	85.9	86.1	87.8	88.7	89.1	89.7	89.8	89.8	89.9	89.9	89.9	90.0	90.0
6	79.4	81.3	86.6	88.1	88.4	90.2	91.1	91.6	92.2	92.3	92.3	92.3	92.4	92.4	92.5	92.5
5	81.2	83.2	87.8	89.4	89.7	91.7	92.7	93.1	93.8	93.9	93.9	94.0	94.1	94.1	94.1	94.1
4	81.7	83.8	88.5	90.1	90.4	92.4	93.4	93.9	94.6	94.6	94.7	94.7	94.8	94.8	94.9	94.9
3	81.0	83.1	88.9	90.5	90.8	92.9	94.0	94.5	95.2	95.3	95.3	95.4	95.5	95.5	95.5	95.5
2	81.4	83.5	89.4	91.2	91.5	93.8	95.0	95.6	96.2	96.4	96.4	96.5	96.5	96.5	96.6	96.6
1	81.4	83.6	89.6	91.4	91.8	94.1	95.5	96.2	96.9	97.1	97.1	97.2	97.3	97.3	97.3	97.3
0	81.4	83.6	89.8	91.7	92.1	94.6	96.0	96.8	97.7	97.9	97.9	98.0	98.0	98.1	98.1	98.1
0	81.4	83.6	89.8	91.8	92.2	94.8	96.4	97.3	98.2	98.4	98.5	98.6	98.7	98.7	98.8	98.8
0	81.4	83.6	89.9	91.9	92.2	94.9	96.6	97.6	98.6	98.9	99.0	99.1	99.3	99.3	99.4	99.4
0	81.4	83.6	89.9	91.9	92.3	95.0	96.6	97.6	98.7	99.0	99.2	99.3	99.5	99.6	99.7	99.7
0	81.4	83.6	89.9	91.9	92.3	95.0	96.7	97.7	98.8	99.1	99.2	99.3	99.6	99.8	100.0	100.0
0	81.4	83.6	89.9	91.9	92.3	95.3	96.7	97.7	98.8	99.1	99.2	99.3	99.6	99.8	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 6221

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIP WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

75621

ALCONBURY RAF UK

73-87

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

000-2200

CEILING FEET	VISIBILITY: STATUTE MILES															
	OR (HUNDREDS OF METERS)															
	≥10	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
≥10	>16	GE90	GF80	GE60	GF48	GF40	GF32	GF24	GF20	GF16	GF12	GF10	GF08	GF05	GF04	GF02
20000	40.2	41.0	45.9	46.3	46.3	46.6	46.6	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8
18000	45.2	46.3	51.8	52.2	52.2	52.9	52.9	52.9	52.9	53.0	53.0	53.0	53.0	53.0	53.0	53.0
16000	45.2	46.3	51.8	52.2	52.2	52.9	52.9	52.9	52.9	53.0	53.0	53.0	53.0	53.0	53.0	53.0
14000	45.2	46.3	51.8	52.2	52.2	52.9	52.9	52.9	52.9	53.0	53.0	53.0	53.0	53.0	53.0	53.0
12000	45.2	46.3	51.8	52.2	52.2	52.9	52.9	52.9	52.9	53.0	53.0	53.0	53.0	53.0	53.0	53.0
10000	46.8	47.8	53.4	53.7	53.7	54.4	54.4	54.4	54.4	54.6	54.6	54.6	54.6	54.6	54.6	54.6
9000	46.7	49.7	55.3	55.7	55.7	56.3	56.3	56.3	56.3	56.5	56.5	56.5	56.5	56.5	56.5	56.5
8000	51.8	52.9	59.0	59.5	59.5	60.2	60.2	60.2	60.2	60.3	60.3	60.3	60.3	60.3	60.3	60.3
7000	52.3	53.4	59.5	60.0	60.0	60.7	60.7	60.7	60.7	60.9	60.9	60.9	60.9	60.9	60.9	60.9
6000	52.9	53.9	60.2	60.7	60.7	61.4	61.4	61.4	61.4	61.6	61.6	61.6	61.6	61.6	61.6	61.6
5000	55.3	56.3	63.5	64.2	64.3	65.0	65.0	65.0	65.0	65.2	65.2	65.2	65.2	65.4	65.4	65.4
4000	58.8	60.0	67.5	68.2	68.3	69.0	69.0	69.0	69.0	69.2	69.2	69.2	69.2	69.4	69.4	69.4
3000	63.0	64.5	73.0	73.7	73.9	74.8	75.0	75.0	75.0	75.1	75.1	75.1	75.1	75.5	75.5	75.5
2000	68.0	69.6	78.1	78.8	79.0	79.8	80.2	80.2	80.3	80.3	80.3	80.3	80.5	80.7	80.7	80.7
1000	69.9	71.8	80.7	81.4	81.6	82.4	82.8	82.8	83.0	83.0	83.0	83.0	83.1	83.3	83.3	83.3
800	71.1	73.0	82.1	82.8	83.0	83.8	84.2	84.2	84.3	84.3	84.3	84.3	84.5	84.7	84.7	84.7
700	73.4	75.3	85.4	86.1	86.3	87.3	87.7	87.7	87.8	87.8	87.8	87.8	88.0	88.2	88.2	88.2
600	73.6	75.5	85.6	86.3	86.4	87.5	87.8	87.8	88.0	88.0	88.0	88.0	88.2	88.3	88.3	88.3
500	75.3	77.4	87.5	88.2	88.3	89.6	89.9	89.9	90.1	90.1	90.1	90.1	90.3	90.4	90.4	90.4
400	76.9	79.0	89.0	89.7	89.9	91.3	91.8	91.8	92.0	92.0	92.0	92.0	92.2	92.3	92.3	92.3
300	77.4	79.5	89.9	90.6	90.8	92.2	92.7	92.7	92.9	92.9	92.9	92.9	93.0	93.2	93.2	93.2
200	78.1	80.2	90.6	91.3	91.5	92.9	93.4	93.4	93.6	93.6	93.6	93.6	93.7	93.9	93.9	93.9
100	78.3	80.3	91.0	91.8	92.0	93.4	93.9	93.9	94.1	94.1	94.1	94.1	94.3	94.4	94.4	94.4
800	78.6	80.7	91.3	92.3	92.5	94.1	94.6	94.6	95.0	95.0	95.0	95.0	95.1	95.3	95.3	95.3
700	78.6	80.7	91.5	92.7	92.9	94.4	95.0	95.0	95.3	95.3	95.3	95.3	95.5	95.7	95.7	95.7
600	79.0	81.0	92.2	93.4	93.6	95.1	95.8	95.8	96.3	96.3	96.3	96.3	96.5	96.9	96.9	96.9
500	79.5	81.6	93.6	94.8	95.1	96.9	97.7	97.7	98.3	98.3	98.3	98.3	98.4	98.8	98.8	98.8
400	79.5	81.6	93.7	95.1	95.5	97.2	98.1	98.1	98.6	98.6	98.6	98.6	98.8	99.1	99.1	99.1
300	79.5	81.6	93.7	95.1	95.5	97.2	98.3	98.3	98.7	98.7	98.7	98.7	98.8	99.1	99.1	99.1
200	79.5	81.6	93.7	95.1	95.5	97.2	98.3	98.3	98.7	98.7	98.7	98.7	98.8	99.1	99.1	99.1
100	79.5	81.6	93.7	95.1	95.5	97.2	98.3	98.3	98.7	98.7	98.7	98.7	98.8	99.1	99.1	99.1
800	79.5	81.6	93.7	95.1	95.5	97.2	98.3	98.3	98.7	98.7	98.7	98.7	98.8	99.1	99.1	99.1
700	79.5	81.6	93.7	95.1	95.5	97.2	98.3	98.3	98.7	98.7	98.7	98.7	98.8	99.1	99.1	99.1
600	79.5	81.6	93.7	95.1	95.5	97.2	98.3	98.3	98.7	98.7	98.7	98.7	98.8	99.1	99.1	99.1
500	79.5	81.6	93.7	95.1	95.5	97.2	98.3	98.3	98.7	98.7	98.7	98.7	98.8	99.1	99.1	99.1
400	79.5	81.6	93.7	95.1	95.5	97.2	98.3	98.3	98.7	98.7	98.7	98.7	98.8	99.1	99.1	99.1
300	79.5	81.6	93.7	95.1	95.5	97.2	98.3	98.3	98.7	98.7	98.7	98.7	98.8	99.1	99.1	99.1
200	79.5	81.6	93.7	95.1	95.5	97.2	98.3	98.3	98.7	98.7	98.7	98.7	98.8	99.1	99.1	99.1
100	79.5	81.6	93.7	95.1	95.5	97.2	98.3	98.3	98.7	98.7	98.7	98.7	98.8	99.1	99.1	99.1

TOTAL NUMBER OF OBSERVATIONS 575

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

35221 ALCONBURY RAF UK

73-82

1981

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

100-2500  
FOOT FEET

CEILING FEET	VISIBILITY STATUTE MILES OR (HUNDREDS OF METERS)															
	≥10	26	25	24	23	22	22	21	21	21	21	21	21	21	21	20
≥16	GE9	GE8	GE6	GE4	GE4	GE4	GE3	GE2	GE2	GE2	GE2	GE2	GE2	GE2	GE2	GE2
20000	24.4	25.9	29.2	30.4	30.5	32.4	33.2	33.7	33.4	33.5	33.5	33.6	34.4	34.6	34.9	
18000	30.0	31.5	35.0	36.1	36.3	38.4	39.4	39.4	39.5	39.7	39.7	39.8	40.6	40.8	41.1	
16000	30.0	31.5	35.0	36.1	36.3	38.4	39.4	39.4	39.5	39.7	39.7	39.8	40.6	40.8	41.1	
14000	30.0	31.5	35.0	36.1	36.3	38.4	39.4	39.4	39.5	39.7	39.7	39.8	40.6	40.8	41.1	
12000	30.0	31.5	35.0	36.1	36.3	38.4	39.4	39.4	39.5	39.7	39.7	39.8	40.6	40.8	41.1	
10000	32.1	33.9	37.8	38.9	39.0	41.2	42.2	42.2	42.3	42.4	42.4	42.6	43.5	43.7	44.0	
9000	33.8	35.5	39.4	40.6	40.7	42.8	43.8	44.0	44.1	44.2	44.2	44.3	45.2	45.5	45.7	
8000	37.5	39.5	43.7	44.8	45.0	47.5	48.6	48.7	48.9	49.0	49.0	49.1	50.0	50.3	50.5	
7000	38.4	42.4	44.7	45.8	46.1	48.6	49.7	49.9	50.0	50.1	50.1	50.3	51.1	51.4	51.6	
6000	38.9	42.9	45.3	46.5	46.7	49.2	50.4	50.5	50.6	50.8	50.8	50.9	51.8	52.0	52.3	
5000	42.4	44.7	50.3	51.5	51.6	54.5	55.7	55.8	55.9	56.7	56.0	56.2	57.1	57.3	57.6	
4500	45.2	47.5	53.3	54.7	54.9	57.7	59.1	59.2	59.3	59.4	59.4	59.6	60.5	60.7	61.0	
4000	50.3	52.8	59.2	60.7	61.0	64.4	65.7	65.9	66.0	66.1	66.1	66.2	67.1	67.4	67.6	
3500	54.0	56.7	63.4	64.9	65.1	68.4	70.0	70.2	70.3	70.4	70.4	70.5	71.4	71.7	71.9	
3000	55.4	58.1	65.0	66.8	67.0	70.9	72.3	72.4	72.5	72.7	72.7	72.8	73.7	73.9	74.2	
2500	57.3	59.9	67.0	68.8	69.0	72.9	74.3	74.4	74.6	74.7	74.7	74.8	75.7	75.9	76.2	
2000	60.3	63.0	70.8	72.5	72.8	77.7	78.5	78.6	78.7	78.8	78.8	79.7	79.8	80.1	80.4	
1800	60.7	63.4	71.3	73.0	73.3	77.5	79.0	79.1	79.2	79.3	79.3	79.5	80.4	80.6	80.9	
1500	63.2	66.7	74.1	75.8	76.1	80.4	81.9	82.0	82.1	82.2	82.2	82.4	83.2	83.5	83.8	
1200	64.9	67.6	75.9	77.8	78.1	82.4	83.9	84.0	84.1	84.3	84.3	84.4	85.3	85.5	85.8	
1000	66.0	68.8	77.6	79.5	79.7	84.1	85.9	86.7	86.1	86.3	86.3	86.4	87.4	87.7	88.0	
900	66.5	69.3	78.5	80.4	80.6	85.7	87.0	87.2	87.3	87.4	87.4	87.5	88.5	88.8	89.2	
800	66.6	69.4	78.8	80.7	81.0	85.8	87.9	88.7	88.2	88.3	88.3	88.4	89.4	89.7	90.1	
700	67.5	70.5	80.0	82.0	82.2	87.0	89.2	89.3	89.4	89.5	89.5	89.7	90.7	90.9	91.3	
600	67.8	70.8	80.4	82.4	82.6	87.5	89.7	89.8	89.9	90.1	90.1	90.2	91.3	91.7	92.1	
500	67.9	70.9	80.5	82.5	82.7	87.8	90.3	90.4	90.6	90.7	90.7	90.8	91.9	92.3	92.7	
400	68.0	71.0	81.5	83.5	83.8	88.9	91.7	91.8	92.3	92.4	92.4	92.6	94.0	94.5	95.0	
300	68.0	71.0	81.9	83.9	84.1	89.5	92.4	92.7	93.7	93.8	93.8	94.7	95.5	96.0	96.6	
200	68.0	71.0	81.9	84.0	84.3	90.1	92.9	93.3	94.7	94.8	94.8	95.3	97.1	97.6	98.5	
100	68.0	71.0	81.9	84.0	84.3	90.1	92.9	93.3	94.7	94.8	94.8	95.3	97.2	97.9	100.0	

TOTAL NUMBER OF OBSERVATIONS 798

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

75521

ALCONBURY RAF UK

73-87

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1600-0000  
HOURS

CEILING FEET	VISIBILITY STATUTE MILES OR (HUNDREDS OF METERS)															
	>10	20	25	24	23	22	21	20	19	18	17	16	15	14	13	12
>10000	24.6	25.6	27.8	29.0	29.0	29.9	30.3	30.3	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6
20000	30.3	31.3	33.6	34.9	34.9	36.2	36.5	36.5	36.9	36.9	36.9	37.0	37.0	37.0	37.0	37.0
18000	30.4	31.4	33.7	35.0	35.0	36.3	36.6	36.6	37.0	37.0	37.0	37.1	37.1	37.1	37.1	37.1
16000	30.4	31.5	33.7	35.0	35.0	36.3	36.6	36.6	37.0	37.0	37.0	37.1	37.1	37.1	37.1	37.1
14000	31.5	31.6	33.8	35.1	35.1	36.4	36.7	36.7	37.1	37.1	37.1	37.2	37.2	37.2	37.2	37.2
12000	31.6	32.6	34.9	36.2	36.2	37.4	37.8	37.8	38.1	38.1	38.1	38.3	38.3	38.3	38.3	38.3
10000	34.0	35.2	37.6	39.0	39.0	40.3	40.6	40.6	41.0	41.0	41.0	41.1	41.1	41.1	41.1	41.1
9000	35.6	37.0	39.4	40.8	40.8	42.1	42.5	42.5	42.8	42.8	42.8	43.0	43.0	43.0	43.0	43.0
8000	41.3	42.6	45.5	47.2	47.2	48.6	48.9	48.9	49.4	49.4	49.4	49.5	49.5	49.5	49.5	49.5
7000	42.3	43.5	46.5	48.1	48.1	49.5	49.9	49.9	50.4	50.4	50.4	50.5	50.5	50.5	50.5	50.5
6000	43.0	44.2	47.2	48.8	48.8	50.2	50.6	50.6	51.1	51.1	51.1	51.2	51.2	51.2	51.2	51.2
5000	46.7	48.0	51.4	53.1	53.1	54.6	54.9	54.9	55.4	55.4	55.4	55.5	55.5	55.5	55.5	55.5
4500	50.5	51.8	55.3	57.2	57.2	58.8	59.2	59.2	59.6	59.6	59.6	59.7	59.7	59.7	59.7	59.7
4000	56.6	58.1	62.2	64.2	64.2	66.1	66.4	66.4	66.9	66.9	66.9	67.0	67.0	67.0	67.0	67.0
3500	55.5	60.1	64.2	66.2	66.2	68.1	68.4	68.4	69.0	69.0	69.0	69.1	69.1	69.1	69.1	69.1
3000	60.4	62.2	66.7	68.9	68.9	70.9	71.4	71.4	72.1	72.1	72.1	72.2	72.2	72.2	72.2	72.2
2500	62.4	64.4	68.9	71.1	71.1	73.1	73.6	73.6	74.3	74.3	74.3	74.4	74.4	74.4	74.4	74.4
2000	64.9	66.7	71.5	73.7	73.7	75.7	76.2	76.2	76.9	76.9	76.9	77.0	77.0	77.0	77.0	77.0
1800	65.6	67.6	72.2	74.4	74.4	76.4	76.9	76.9	77.6	77.6	77.6	77.7	77.7	77.7	77.7	77.7
1600	66.1	70.3	75.1	77.3	77.3	79.6	80.0	80.0	80.9	80.9	80.9	81.0	81.0	81.0	81.0	81.0
1400	71.5	73.7	78.6	80.9	80.9	83.1	83.6	83.6	84.5	84.5	84.5	84.6	84.6	84.6	84.6	84.6
1200	72.1	75.5	80.5	82.9	82.9	85.1	85.2	85.2	85.7	85.7	85.7	86.6	86.6	86.6	86.6	86.6
1000	73.9	76.3	81.6	83.9	83.9	86.2	86.3	86.3	86.9	86.9	86.9	87.7	87.7	87.7	87.7	87.7
900	74.9	77.2	82.6	85.0	85.0	87.4	87.9	87.9	88.8	88.8	88.8	89.0	89.0	89.0	89.0	89.0
800	75.6	78.2	83.8	86.5	86.5	88.7	89.1	89.1	89.8	89.8	89.8	90.6	90.6	90.6	90.6	90.6
700	76.2	78.9	84.6	87.6	87.6	89.8	90.3	90.3	91.0	91.0	91.0	91.8	91.8	91.8	91.8	91.8
600	76.4	79.2	85.2	88.1	88.1	90.4	91.1	91.1	91.8	91.8	91.8	92.6	92.6	92.6	92.6	92.6
500	76.4	79.5	85.8	89.0	89.0	91.2	92.3	92.3	93.1	93.1	93.1	94.4	94.4	94.4	94.4	94.4
400	76.4	79.5	86.0	89.2	89.2	91.4	92.7	92.7	93.7	93.7	93.7	95.2	95.2	95.2	95.2	95.2
300	76.4	79.5	86.0	89.2	89.2	91.4	92.7	92.7	93.7	93.7	93.7	95.2	95.2	95.2	95.2	95.2
200	76.4	79.5	86.0	89.2	89.2	91.4	92.7	92.7	93.7	93.7	93.7	95.2	95.2	95.2	95.2	95.2
100	76.4	79.5	86.0	89.2	89.2	91.4	92.7	92.7	93.7	93.7	93.7	95.2	95.2	95.2	95.2	95.2
0	76.4	79.5	86.0	89.2	89.2	91.4	92.7	92.7	93.7	93.7	93.7	95.2	95.2	95.2	95.2	95.2

TOTAL NUMBER OF OBSERVATIONS 852

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

75621 ALCONBUYP RAF UK

73-87

1111

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

920-1100

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
OR (HUNDREDS OF METERS)	≥10	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
≥20000	25.6	25.7	26.3	26.5	26.5	26.5	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6
18000	32.2	32.3	33.1	33.2	33.2	33.2	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3
16000	32.2	32.3	33.1	33.2	33.2	33.2	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3
14000	32.4	32.5	33.3	33.4	33.4	33.4	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5
12000	33.7	33.9	34.6	34.8	34.8	34.8	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9
10000	36.2	36.3	37.1	37.2	37.2	37.3	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4
9000	37.6	37.7	38.5	38.6	38.6	38.7	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8
8000	42.2	43.3	44.2	44.4	44.4	44.5	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6
7000	44.6	45.7	45.9	46.1	46.1	46.2	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3
6000	45.1	45.4	46.3	46.5	46.5	46.6	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7
5000	46.1	46.4	46.9	47.6	47.8	48.1	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2
4500	50.6	50.9	52.0	52.4	52.4	52.7	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8
4000	57.4	57.8	59.0	59.5	59.5	59.9	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
3500	63.6	64.1	65.4	65.9	65.9	66.4	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
3000	71.1	71.5	73.1	73.5	73.5	74.1	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
2500	73.8	74.2	75.8	76.3	76.3	76.9	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
2000	76.7	79.5	81.1	81.6	81.6	82.2	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
1800	79.9	80.7	82.3	82.8	82.8	82.8	83.4	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5
1600	83.6	84.4	86.8	87.3	87.3	87.3	87.3	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
1400	87.1	87.9	90.6	91.3	91.3	91.9	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
1200	88.8	89.7	92.6	93.4	93.4	94.1	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
1000	89.5	90.4	93.3	94.2	94.3	95.1	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
900	90.5	91.4	94.5	95.4	95.5	96.3	96.6	96.6	96.6	96.7	96.7	96.7	96.7	96.7	96.7	96.7
800	90.8	91.7	95.0	95.9	96.0	96.7	97.1	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
700	91.0	91.9	95.3	96.3	96.4	97.3	97.6	97.8	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
600	91.0	91.9	95.6	96.6	96.7	97.9	98.4	98.5	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
500	91.0	91.9	95.6	96.6	96.7	97.9	98.4	98.5	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
400	91.0	91.9	95.6	96.6	96.7	97.9	98.4	98.5	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
300	91.0	91.9	95.6	96.6	96.7	97.9	98.4	98.5	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
200	91.0	91.9	95.6	96.6	96.7	97.9	98.4	98.5	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
100	91.0	91.9	95.6	96.6	96.7	97.9	98.4	98.5	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
0	91.0	91.9	95.6	96.6	96.7	97.9	98.4	98.5	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7

TOTAL NUMBER OF OBSERVATIONS 892

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

75621

ALCONBURY RAF UK

73-87

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1800  
HOURS LT

CEILING FEET	VISIBILITY STATUTE MILES															
	>10	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
NO. CEILING 20000	23.0	23.0	23.1	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3
218000	30.6	30.6	30.9	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1
218000	30.8	30.6	31.1	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3
218000	31.5	31.5	31.1	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3
214000	31.8	31.8	31.1	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3
212000	31.4	31.4	31.8	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0
210000	34.3	34.3	34.7	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9
210000	35.0	35.0	35.5	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7
210000	40.4	40.4	40.8	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0
210000	41.6	41.6	42.0	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2
210000	42.0	42.0	42.5	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
210000	47.3	47.3	47.8	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0
210000	51.0	51.0	51.5	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
210000	63.2	63.2	63.8	64.1	64.1	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
210000	72.7	73.0	74.0	74.3	74.3	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
210000	79.5	79.8	80.9	81.3	81.3	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
210000	84.3	84.6	85.7	86.1	86.1	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
210000	87.8	88.1	89.3	89.8	89.8	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
210000	88.2	88.5	89.7	90.3	90.3	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
210000	91.2	91.5	92.7	93.2	93.2	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
210000	93.7	94.1	95.5	96.1	96.1	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
210000	94.8	95.2	96.7	97.4	97.4	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
210000	94.9	95.3	96.9	97.7	97.7	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
210000	95.1	95.5	97.4	98.1	98.1	98.6	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
210000	95.3	95.7	97.7	98.6	98.6	99.0	99.0	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
210000	95.3	95.7	97.8	98.7	98.7	99.1	99.1	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
210000	95.3	95.7	97.9	98.8	98.8	99.2	99.3	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
210000	95.3	95.7	97.9	98.8	98.8	99.2	99.3	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
210000	95.3	95.7	98.0	98.9	98.9	99.6	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
210000	95.3	95.7	98.0	98.9	98.9	99.6	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
210000	95.3	95.7	98.0	98.9	98.9	99.6	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 916

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

15121 ALCONBURY RAF UK

71-82

111

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700

	VISIBILITY STATUTE MILES																OR (HUNDREDS OF METERS)				
	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120
2000	25.3	25.3	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7
1800	33.4	33.4	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7
1600	34.1	34.1	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4
1400	34.2	34.2	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5
1200	34.6	34.6	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1
1000	39.1	39.1	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7
800	40.8	40.8	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4
600	49.1	49.1	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
400	51.1	51.1	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
200	57.6	57.6	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
100	64.5	64.5	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
50	75.6	75.6	76.9	76.9	76.9	76.9	76.9	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
25	83.9	84.1	85.4	85.5	85.5	85.5	85.5	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
12.5	87.3	87.7	89.1	89.2	89.2	89.2	89.2	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
6.25	89.1	89.5	90.9	91.0	91.0	91.0	91.0	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
3.125	91.1	91.5	93.2	93.3	93.3	93.3	93.3	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
1.5625	92.2	92.5	95.4	95.6	95.6	95.6	95.6	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
0.78125	95.1	95.4	97.5	97.8	97.8	97.8	97.8	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
0.390625	95.7	96.1	98.4	98.7	98.7	98.7	98.7	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
0.1953125	95.4	96.3	98.7	98.9	98.9	98.9	98.9	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
0.09765625	95.9	96.3	98.8	99.0	99.0	99.0	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
0.048828125	95.9	96.3	98.8	99.0	99.0	99.0	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
0.0244140625	95.9	96.3	98.8	99.0	99.0	99.0	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
0.01220703125	95.9	96.3	98.8	99.0	99.0	99.0	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
0.006103515625	95.9	96.3	98.8	99.0	99.0	99.0	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
0.0030517578125	95.9	96.3	98.8	99.0	99.0	99.0	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
0.00152587890625	95.9	96.3	98.8	99.0	99.0	99.0	99.0	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4

TOTAL NUMBER OF OBSERVATIONS 892

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

25621

ALCONBURY RAF UK

73-87

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

18.0-2000  
HOURS

CEILING FEET	VISIBILITY STATUTE MILES															
	OR (HUNDREDS OF METERS)															
	≥10 >16	≥6 GE90	≥5 GE80	≥4 GE60	≥3 GE40	≥2 GE32	≥1 GE24	≥1 GE16	≥1 GE12	≥1 GE10	≥1 GE08	≥1 GE05	≥1 GE04	≥1 GE03	≥1 GE02	≥1 GE01
NO CEILING		34.7	35.1	35.4	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6
≥20000		43.6	44.0	44.3	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
≥18000		43.9	44.3	44.5	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
≥16000		43.9	44.3	44.5	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
≥14000		44.1	44.5	44.8	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
≥12000		44.9	45.3	45.7	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9
≥10000		49.3	49.8	50.2	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5
≥9000		50.2	50.7	51.1	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
≥8000		56.2	59.0	59.7	60.1	60.1	60.1	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3
≥7000		60.0	62.8	61.5	61.9	61.9	61.9	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1
≥6000		61.4	62.2	63.0	63.4	63.4	63.4	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5
≥5000		64.3	65.3	66.5	66.8	67.0	67.0	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
≥4500		69.7	71.0	72.5	72.9	73.0	73.0	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2
≥4000		77.5	79.7	80.6	81.0	81.3	81.3	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
≥3500		82.6	84.0	85.7	86.1	86.3	86.3	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥3000		85.3	87.0	88.9	89.3	89.5	89.5	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥2500		86.7	88.4	90.3	90.7	91.0	91.0	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
≥2000		89.2	90.8	92.9	93.3	93.5	93.5	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
≥1800		89.9	91.6	93.7	94.1	94.3	94.3	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
≥1500		90.7	92.5	94.6	95.0	95.2	95.4	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥1200		91.9	93.7	96.0	96.6	96.9	97.0	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥1000		92.4	94.2	96.6	97.3	97.5	97.7	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥900		92.5	94.3	96.8	97.4	97.7	97.8	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥800		92.9	94.7	97.3	98.1	98.3	98.7	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥700		93.0	95.0	97.5	98.3	98.6	99.0	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥600		93.0	95.0	97.5	98.3	98.6	99.0	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥500		93.0	95.0	97.7	98.5	98.7	99.1	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥400		93.0	95.0	97.7	98.5	98.7	99.1	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥300		93.0	95.0	97.7	98.5	98.7	99.1	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥200		93.0	95.0	97.7	98.5	98.7	99.1	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥100		93.0	95.0	97.7	98.5	98.7	99.1	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥50		93.0	95.0	97.7	98.5	98.7	99.1	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥20		93.0	95.0	97.7	98.5	98.7	99.1	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6

TOTAL NUMBER OF OBSERVATIONS 275

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

15621 ALCONBURY RAF UK

73-82

1111

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1170-2350  
HOURS 1-11

CEILING FEET	VISIBILITY STATUTE MILES OR (HUNDREDS OF METERS)															
	≥10 >16	≥6 GE9.1	≥5 GE8.0	≥4 GE6.0	≥3 GE4.8	≥2.5 GE4.0	≥2 GE3.2	≥1.5 GE2.4	≥1 GE1.6	≥0.5 GE1.0	≥0.25 GE0.8	≥0.1 GE0.5	≥0.05 GE0.3	≥0.025 GE0.2	≥0.01 GE0.1	≥0.005 GE0.05
NO CEILING	40.1	47.6	41.8	41.9	41.9	42.2	42.2	42.2	42.2	42.2	42.2	42.4	42.4	42.4	42.4	42.4
≥ 20000	47.4	48.1	49.3	49.5	49.5	49.8	49.8	49.8	49.8	49.8	49.8	49.9	49.9	49.9	49.9	49.9
≥ 18000	48.0	48.7	49.9	50.1	50.1	50.4	50.4	50.4	50.4	50.4	50.4	50.5	50.5	50.5	50.5	50.5
≥ 16000	48.0	48.7	49.9	50.1	50.1	50.4	50.4	50.4	50.4	50.4	50.4	50.5	50.5	50.5	50.5	50.5
≥ 14000	48.0	48.7	49.9	50.1	50.1	50.4	50.4	50.4	50.4	50.4	50.4	50.5	50.5	50.5	50.5	50.5
≥ 12000	48.0	48.7	49.9	50.1	50.1	50.4	50.4	50.4	50.4	50.4	50.4	50.5	50.5	50.5	50.5	50.5
≥ 10000	52.7	53.5	54.8	55.0	55.0	55.3	55.3	55.3	55.3	55.3	55.3	55.4	55.4	55.4	55.4	55.4
≥ 9000	53.0	53.8	55.3	55.6	55.6	55.9	55.9	55.9	55.9	55.9	55.9	56.0	56.0	56.0	56.0	56.0
≥ 8000	57.5	58.2	60.3	60.6	60.6	61.0	61.2	61.2	61.2	61.3	61.3	61.5	61.5	61.5	61.5	61.5
≥ 7000	57.6	58.4	60.4	60.7	60.7	61.2	61.3	61.3	61.3	61.5	61.5	61.6	61.6	61.6	61.6	61.6
≥ 6000	58.1	58.8	60.9	61.2	61.2	61.6	61.8	61.8	61.8	61.9	61.9	62.1	62.1	62.1	62.1	62.1
≥ 5000	60.7	61.6	64.1	64.4	64.4	64.9	65.0	65.0	65.0	65.2	65.2	65.3	65.3	65.3	65.3	65.3
≥ 4500	65.0	65.9	68.9	69.2	69.2	69.6	69.8	69.8	69.8	69.9	69.9	70.1	70.1	70.1	70.1	70.1
≥ 4000	71.4	72.7	76.0	76.3	76.3	76.9	77.2	77.2	77.2	77.3	77.3	77.5	77.5	77.5	77.5	77.5
≥ 3500	76.3	77.6	81.2	81.5	81.5	82.1	82.5	82.5	82.7	82.8	82.8	83.0	83.0	83.0	83.0	83.0
≥ 3000	79.4	80.7	84.4	84.7	84.7	85.3	85.8	85.8	85.9	86.1	86.1	86.2	86.2	86.2	86.2	86.2
≥ 2500	81.2	82.7	86.5	86.8	86.8	87.4	87.9	87.9	88.1	88.3	88.3	88.4	88.4	88.4	88.4	88.4
≥ 2000	83.3	84.7	89.0	89.3	89.3	89.9	90.5	90.5	90.8	91.0	91.0	91.1	91.1	91.1	91.1	91.1
≥ 1800	83.4	84.9	89.2	89.5	89.5	90.1	90.7	90.7	91.0	91.1	91.1	91.3	91.3	91.3	91.3	91.3
≥ 1600	84.9	86.4	91.1	91.4	91.4	92.0	92.6	92.6	92.9	93.0	93.0	93.2	93.2	93.2	93.2	93.2
≥ 1400	85.9	87.4	92.6	93.0	93.0	93.8	94.4	94.5	94.8	95.0	95.0	95.1	95.1	95.1	95.1	95.1
≥ 1200	87.0	88.4	93.9	94.4	94.4	95.1	95.7	95.9	96.1	96.3	96.3	96.4	96.4	96.4	96.4	96.4
≥ 1000	87.3	89.2	94.7	95.1	95.1	95.9	96.4	96.6	96.9	97.0	97.0	97.2	97.2	97.2	97.2	97.2
≥ 900	87.3	89.5	95.0	95.6	95.6	96.3	96.9	97.0	97.3	97.5	97.5	97.6	97.6	97.6	97.6	97.6
≥ 800	87.7	89.9	95.4	96.0	96.0	96.7	97.3	97.5	97.8	97.9	97.9	98.1	98.1	98.1	98.1	98.1
≥ 700	87.9	90.1	95.6	96.1	96.1	96.9	97.5	97.6	97.9	98.1	98.1	98.2	98.2	98.2	98.2	98.2
≥ 600	88.1	90.4	95.9	96.6	96.6	97.3	97.9	98.1	98.4	98.5	98.5	98.7	98.7	98.7	98.7	98.7
≥ 500	88.3	90.7	96.6	97.3	97.3	98.2	98.8	99.0	99.3	99.4	99.4	99.6	99.6	99.6	99.6	99.6
≥ 400	88.4	90.8	96.7	97.5	97.5	98.4	99.0	99.1	99.4	99.6	99.6	99.7	99.7	99.7	99.7	99.7
≥ 300	88.4	90.8	96.7	97.5	97.5	98.4	99.0	99.1	99.4	99.6	99.6	99.7	99.7	99.7	99.7	99.7
≥ 200	88.4	90.8	96.7	97.5	97.5	98.4	99.0	99.1	99.4	99.6	99.6	99.7	99.7	99.7	99.7	99.7
≥ 100	88.4	90.8	96.7	97.5	97.5	98.4	99.0	99.1	99.4	99.6	99.6	99.7	99.7	99.7	99.7	99.7
≥ 50	88.4	90.8	96.7	97.5	97.5	98.4	99.0	99.1	99.4	99.6	99.6	99.7	99.7	99.7	99.7	99.7
≥ 20	88.4	90.8	96.7	97.5	97.5	98.4	99.0	99.1	99.4	99.6	99.6	99.7	99.7	99.7	99.7	99.7

TOTAL NUMBER OF OBSERVATIONS 675

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIP WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

75621 ALCONBURY RAF UK

73-87

JUL

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL  
HOURS 151

CEILING FEET	VISIBILITY - STATUTE MILES OR (HUNDREDS OF METERS)															
	≥ 10 > 10	≥ 6 GE90	≥ 5 GE80	≥ 4 GE60	≥ 3 GE48	≥ 2.5 GE40	≥ 2 GE32	≥ 1.5 GE24	≥ 1.25 GE20	≥ 1 GE16	≥ .75 GE12	≥ .5 GE10	≥ .25 GE08	≥ .16 GE05	≥ .1 GE04	≥ .05 GE02
NO CEILING ≥ 20000		28.9	29.4	30.8	31.3	31.3	31.7	31.9	31.9	31.9	32.0	32.0	32.0	32.1	32.2	32.2
≥ 18000		35.6	36.4	37.9	38.4	38.4	38.9	39.1	39.1	39.2	39.2	39.2	39.4	39.5	39.5	39.5
≥ 16000		36.0	36.6	38.2	38.6	38.6	39.2	39.4	39.4	39.4	39.4	39.4	39.5	39.6	39.7	39.7
≥ 14000		36.0	36.6	38.2	38.6	38.6	39.2	39.4	39.4	39.4	39.4	39.4	39.5	39.6	39.7	39.7
≥ 12000		36.1	36.7	38.3	38.7	38.7	39.3	39.4	39.4	39.5	39.5	39.5	39.6	39.7	39.8	39.8
≥ 10000		36.7	37.3	38.9	39.4	39.4	39.9	40.1	40.1	40.2	40.2	40.2	40.4	40.5	40.5	40.5
≥ 9000		39.8	40.5	42.2	42.7	42.7	43.2	43.4	43.4	43.5	43.5	43.5	43.7	43.8	43.8	43.8
≥ 8000		41.1	41.8	43.5	44.0	44.0	44.6	44.7	44.8	44.8	44.9	44.9	45.0	45.1	45.2	45.2
≥ 7000		46.8	47.5	49.5	50.1	50.1	50.7	51.0	51.0	51.1	51.1	51.1	51.3	51.4	51.5	51.5
≥ 6000		47.8	48.6	50.6	51.2	51.2	51.8	52.1	52.1	52.2	52.3	52.3	52.4	52.5	52.6	52.6
≥ 5000		48.5	49.2	51.3	51.9	51.9	52.5	52.8	52.8	52.9	53.0	53.0	53.1	53.2	53.3	53.3
≥ 4500		52.4	53.2	55.7	56.3	56.3	57.1	57.3	57.4	57.4	57.5	57.5	57.7	57.8	57.9	57.9
≥ 4000		56.5	57.4	60.1	60.8	60.8	61.5	61.8	61.9	62.0	62.0	62.0	62.2	62.3	62.4	62.4
≥ 3500		64.2	65.3	68.3	69.1	69.1	70.0	70.4	70.4	70.5	70.5	70.5	70.6	70.7	70.8	70.9
≥ 3000		69.9	71.1	74.3	75.0	75.1	76.0	76.4	76.4	76.5	76.6	76.6	76.6	76.8	76.9	77.0
≥ 2500		73.7	74.9	78.4	79.2	79.3	80.3	80.6	80.7	80.8	80.9	80.9	81.1	81.2	81.2	81.2
≥ 2000		76.0	77.3	80.8	81.6	81.7	82.7	83.0	83.1	83.2	83.3	83.3	83.3	83.5	83.6	83.7
≥ 1800		78.8	80.2	84.0	84.8	84.9	85.9	86.3	86.4	86.5	86.5	86.5	86.6	86.8	86.9	86.9
≥ 1600		79.4	80.7	84.6	85.4	85.5	86.5	86.9	87.0	87.1	87.1	87.1	87.2	87.4	87.5	87.5
≥ 1400		81.7	83.1	87.2	88.0	88.1	89.2	89.6	89.6	89.8	89.8	89.8	89.9	90.1	90.2	90.2
≥ 1200		83.8	85.3	89.6	90.5	90.6	91.8	92.2	92.3	92.5	92.5	92.5	92.5	92.7	92.8	92.9
≥ 1000		84.9	86.4	90.9	91.9	92.0	93.2	93.7	93.8	93.9	94.0	94.0	94.0	94.2	94.3	94.4
≥ 900		85.3	86.8	91.5	92.5	92.6	93.8	94.4	94.4	94.6	94.7	94.7	94.7	94.9	95.0	95.1
≥ 800		85.7	87.2	92.0	93.1	93.2	94.6	95.1	95.2	95.4	95.4	95.4	95.5	95.7	95.8	95.9
≥ 700		86.1	87.7	92.6	93.7	93.8	95.2	95.8	95.9	96.1	96.2	96.2	96.2	96.4	96.5	96.6
≥ 600		86.2	87.9	92.8	94.0	94.1	95.6	96.2	96.2	96.5	96.5	96.5	96.6	96.8	96.9	97.0
≥ 500		86.3	88.0	93.1	94.3	94.4	96.0	96.6	96.7	97.0	97.0	97.0	97.1	97.3	97.4	97.5
≥ 400		86.4	88.1	93.5	94.7	94.9	96.5	97.3	97.4	97.8	97.8	97.8	97.9	98.1	98.3	98.4
≥ 300		86.4	88.1	93.6	94.9	95.1	96.8	97.6	97.8	98.2	98.3	98.3	98.4	98.7	98.8	99.0
≥ 200		86.4	88.1	93.6	94.9	95.1	96.8	97.7	97.9	98.5	98.5	98.6	98.7	99.1	99.3	99.6
≥ 100		86.4	88.1	93.6	94.9	95.1	96.8	97.7	97.9	98.5	98.5	98.6	98.7	99.2	99.4	100.0
≥ 0		86.4	88.1	93.6	94.9	95.1	96.8	97.7	97.9	98.5	98.5	98.6	98.7	99.2	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 6371

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

35621 ALCONBURY RAF UK

73-82

AUG

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0000-0000

CEILING FEET	VISIBILITY STATUTE MILES OR (HUNDREDS OF METERS)															
	≥10	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
NO CEILING	42.8	45.3	50.5	51.3	52.2	53.7	54.5	54.7	55.2	55.2	55.2	55.4	55.5	55.5	55.7	55.7
≥20000	44.8	47.3	52.9	53.7	54.5	56.2	57.0	57.2	57.7	57.7	57.7	57.9	58.1	58.1	58.2	58.2
≥18000	44.8	47.3	52.9	53.7	54.5	56.2	57.0	57.2	57.7	57.7	57.7	57.9	58.1	58.1	58.2	58.2
≥16000	44.8	47.3	52.9	53.7	54.5	56.2	57.0	57.2	57.7	57.7	57.7	57.9	58.1	58.1	58.2	58.2
≥14000	44.8	47.3	52.9	53.7	54.5	56.2	57.0	57.2	57.7	57.7	57.7	57.9	58.1	58.1	58.2	58.2
≥12000	44.8	47.3	52.9	53.7	54.5	56.2	57.0	57.2	57.7	57.7	57.7	57.9	58.1	58.1	58.2	58.2
≥10000	47.5	50.0	56.2	57.2	58.1	59.7	60.6	60.7	61.2	61.2	61.2	61.4	61.6	61.6	61.7	61.7
≥9000	46.8	51.3	57.7	58.7	59.6	61.2	62.1	62.2	62.8	62.8	62.8	62.9	63.1	63.1	63.3	63.3
≥8000	51.5	54.2	67.9	62.1	62.9	64.8	65.6	65.8	66.6	66.6	66.6	66.9	67.3	67.4	67.4	67.6
≥7000	52.5	55.2	61.9	63.4	64.3	66.4	67.3	67.4	68.3	68.3	68.6	69.0	69.1	69.1	69.3	69.3
≥6000	52.7	55.5	62.2	63.8	64.6	66.4	67.6	67.8	68.6	68.6	69.0	69.3	69.5	69.5	69.6	69.6
≥5000	53.7	56.7	63.4	64.9	65.8	68.1	69.2	69.1	70.1	70.1	70.5	70.8	71.0	71.0	71.1	71.1
≥4500	57.0	60.1	66.8	68.3	69.1	71.5	72.3	72.5	73.5	73.5	73.8	74.2	74.3	74.3	74.5	74.5
≥4000	59.6	62.6	69.6	71.1	72.0	74.3	75.2	75.5	76.7	76.7	77.0	77.3	77.5	77.5	77.7	77.7
≥3500	61.4	64.4	71.5	73.0	73.8	76.3	77.2	77.5	78.7	78.7	79.0	79.4	79.5	79.5	79.7	79.7
≥3000	63.1	66.1	73.2	74.7	75.5	78.0	78.9	79.2	80.4	80.4	80.7	81.0	81.2	81.2	81.4	81.4
≥2500	63.6	66.6	73.8	75.5	76.3	79.0	79.9	80.2	81.4	81.4	81.7	82.0	82.2	82.2	82.4	82.4
≥2000	65.4	68.5	76.0	77.7	78.5	81.4	82.2	82.6	83.7	83.7	84.1	84.4	84.6	84.6	84.7	84.7
≥1800	66.1	69.1	76.8	78.5	79.4	82.2	83.1	83.4	84.6	84.6	84.9	85.2	85.4	85.4	85.6	85.6
≥1500	67.1	70.1	79.0	81.0	81.9	84.9	85.7	86.1	87.2	87.2	87.6	87.9	88.1	88.1	88.3	88.3
≥1200	68.0	71.3	80.5	82.7	83.6	86.6	87.4	87.8	88.9	88.9	89.3	89.6	89.8	89.8	89.9	89.9
≥1000	68.5	71.8	81.4	83.6	84.4	87.4	88.3	88.6	89.8	89.8	90.1	90.4	90.6	90.6	90.8	90.8
≥900	68.8	72.1	81.7	83.9	84.7	88.1	89.1	89.4	90.6	90.6	90.9	91.3	91.4	91.4	91.6	91.6
≥800	69.0	72.3	82.2	84.4	85.2	88.6	89.6	89.9	91.1	91.1	91.4	91.8	91.8	91.9	92.1	92.1
≥700	69.0	72.3	82.4	84.6	85.4	88.8	89.9	90.3	91.4	91.4	91.8	92.1	92.3	92.3	92.4	92.4
≥600	69.0	72.7	84.1	86.2	87.2	90.8	91.9	92.3	93.6	93.6	94.0	94.3	94.6	94.6	94.8	94.8
≥500	69.0	73.0	84.7	87.1	88.1	91.8	93.1	93.5	94.8	94.8	95.1	95.5	96.0	96.0	96.1	96.1
≥400	69.0	73.0	84.7	87.2	88.3	91.9	93.3	93.7	95.0	95.0	95.3	95.7	96.1	96.1	96.2	96.2
≥300	69.0	73.0	84.7	87.4	88.6	92.8	94.5	95.6	97.1	97.5	97.8	98.7	99.2	99.2	99.7	99.7
≥200	69.0	73.0	84.7	87.4	88.6	92.8	94.5	95.6	97.3	97.7	98.0	98.8	99.3	99.3	100.0	100.0
≥100	69.0	73.0	84.7	87.4	88.6	92.8	94.5	95.6	97.3	97.7	98.0	98.8	99.3	99.3	100.0	100.0
≥50	69.0	73.0	84.7	87.4	88.6	92.8	94.5	95.6	97.3	97.7	98.0	98.8	99.3	99.3	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 596



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION 35621 ALCONBURY RAF UK

73-82

AUG

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

300-0500  
HOURS

CEILING FEET	VISIBILITY STATUTE MILES																OR (HUNDREDS OF METERS)													
	≥10	≥6	≥3	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥16	≥10	≥6	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1
≥20000	28.8	31.4	36.2	36.8	37.2	47.2	41.2	41.0	42.6	42.7	43.2	43.7	44.2	44.3	46.2															
18000	32.8	35.5	40.7	41.6	42.2	45.3	46.6	47.3	47.9	48.1	48.6	49.2	49.9	50.1	51.9															
16000	32.8	35.5	40.7	41.6	42.2	45.3	46.6	47.3	47.9	48.1	48.6	49.2	49.9	50.1	51.9															
14000	32.8	35.5	40.7	41.6	42.2	45.3	46.6	47.3	47.9	48.1	48.6	49.2	49.9	50.1	51.9															
12000	33.2	35.9	41.1	41.9	42.6	45.7	46.9	47.7	48.3	48.4	48.9	49.6	50.3	50.4	52.3															
10000	36.0	38.9	44.7	45.8	46.4	49.8	51.1	51.8	52.4	52.6	53.1	53.7	54.4	54.6	56.4															
8000	36.6	39.7	45.4	46.6	47.2	50.6	51.8	52.6	53.2	53.3	53.8	54.4	55.2	55.3	57.2															
6000	40.8	43.7	50.3	51.6	52.3	56.1	57.3	58.2	59.3	59.4	59.9	60.6	61.5	61.6	63.5															
5000	41.6	44.4	51.2	52.8	53.7	57.6	58.8	59.7	60.8	61.0	61.5	62.1	63.0	63.1	65.0															
4500	41.8	44.7	51.4	53.1	53.9	57.8	59.1	59.9	61.1	61.2	61.7	62.3	63.2	63.3	65.2															
4000	43.7	46.6	53.7	55.3	56.2	60.1	61.3	62.2	63.3	63.7	64.2	64.8	65.7	65.8	67.7															
3500	46.3	49.3	56.7	58.3	59.2	63.2	64.5	65.3	66.5	66.8	67.3	68.0	68.8	69.7	70.8															
3000	48.9	52.1	60.1	61.8	62.7	67.0	68.3	69.5	70.6	71.0	71.5	72.2	73.1	73.2	75.1															
2500	50.7	53.8	62.3	64.2	65.1	69.1	71.1	72.3	73.5	73.8	74.3	75.1	76.0	76.1	78.0															
2000	51.9	55.6	64.2	66.1	67.0	71.6	73.1	74.3	75.5	75.8	76.3	77.1	78.0	78.1	80.0															
1800	52.4	56.1	65.2	67.3	68.2	72.8	74.3	75.6	76.7	77.1	77.6	78.3	79.2	79.3	81.2															
1600	54.7	58.9	68.6	70.7	71.7	76.5	78.0	79.2	80.4	80.7	81.2	82.1	82.9	83.7	84.9															
1400	54.8	59.1	68.7	70.8	71.8	76.6	78.1	79.3	80.5	80.9	81.4	82.1	83.1	83.1	85.0															
1200	55.7	59.9	69.8	72.0	73.0	77.7	79.2	80.5	81.6	82.0	82.5	83.2	84.1	84.2	86.1															
1000	56.6	61.0	71.1	73.2	74.2	79.1	80.6	81.9	83.0	83.4	83.9	84.6	85.5	85.6	87.5															
900	56.8	61.2	72.1	74.3	75.3	80.2	81.7	83.0	84.1	84.5	85.0	85.7	86.6	86.7	88.6															
800	57.2	61.7	72.7	75.0	76.0	80.9	82.6	83.9	85.0	85.4	85.9	86.6	87.5	87.6	89.5															
700	57.2	61.7	72.7	75.1	76.1	81.1	82.9	84.1	85.2	85.6	86.1	86.9	87.7	87.9	89.7															
600	57.3	61.8	73.1	75.6	76.6	81.6	83.5	84.7	85.9	86.2	86.7	87.5	88.4	88.5	90.4															
500	57.4	62.0	74.5	77.0	78.1	83.2	85.2	86.7	87.9	88.2	88.7	89.6	90.5	90.6	92.5															
400	57.4	62.0	75.1	77.6	78.8	84.5	86.5	88.7	90.4	91.0	91.5	92.5	93.4	93.5	95.5															
300	57.4	62.0	75.1	77.6	78.8	84.9	87.1	89.4	91.0	91.6	92.4	93.4	94.2	94.4	96.7															
200	57.4	62.0	75.1	77.7	79.0	85.0	87.4	89.6	91.6	92.2	93.2	94.4	95.4	95.7	98.5															
100	57.4	62.0	75.2	77.8	79.1	85.1	87.5	89.7	91.7	92.4	93.4	94.6	95.7	96.2	99.7															
0	57.4	62.0	75.2	77.8	79.1	85.1	87.5	89.7	91.7	92.4	93.4	94.6	95.9	96.4	100.0															

TOTAL NUMBER OF OBSERVATIONS 799

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION ALCONBURY RAF UK

73-87

YEARS

ALC

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

500-0830

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0
NO. FLIGHTS	216	GE97	GE87	GE60	GE48	GE40	GE32	GE24	GE20	GE16	GE12	GE10	GE08	GE05	GE04	GE0
≥ 20000		20.8	22.2	26.9	29.3	29.4	31.7	32.4	33.4	33.8	34.1	34.1	34.3	34.9	35.8	37.1
≥ 18000		23.5	24.9	30.1	33.0	33.1	35.5	36.9	38.1	38.7	39.7	39.7	39.2	39.8	40.7	42.1
≥ 16000		24.0	25.3	30.6	33.5	33.6	35.9	37.3	38.6	39.2	39.4	39.4	39.7	40.2	41.2	42.6
≥ 14000		24.7	25.3	30.6	33.5	33.6	35.9	37.3	38.6	39.2	39.4	39.4	39.7	40.2	41.2	42.6
≥ 12000		24.0	25.3	30.6	33.5	33.6	35.9	37.3	38.6	39.2	39.4	39.4	39.7	40.2	41.2	42.6
≥ 10000		24.7	26.3	31.5	34.4	34.5	37.1	38.5	39.8	40.3	40.6	40.6	40.8	41.4	42.3	43.7
≥ 9000		26.7	29.4	34.8	37.7	37.9	47.8	42.2	43.6	44.4	44.7	44.7	44.9	45.5	46.4	47.8
≥ 8000		27.7	29.3	35.7	38.6	38.8	41.7	43.1	44.5	45.3	45.6	45.6	45.8	46.4	47.3	48.7
≥ 7000		30.9	32.8	47.0	43.3	43.6	46.7	48.4	49.9	50.9	51.2	51.2	51.4	52.0	52.9	54.3
≥ 6000		32.4	33.8	41.2	44.5	45.0	48.1	49.8	51.5	52.7	52.9	52.9	53.1	53.7	54.7	56.0
≥ 5000		32.1	34.7	41.3	44.7	45.1	48.3	49.9	51.6	52.8	53.7	53.0	53.3	53.8	54.8	56.2
≥ 4500		34.1	35.9	43.6	47.2	47.7	50.8	52.4	54.2	55.3	55.6	55.6	55.8	56.4	57.3	58.7
≥ 4000		37.9	39.8	48.1	51.9	52.3	55.5	57.1	58.8	60.0	60.2	60.2	60.5	61.0	62.7	63.4
≥ 3500		42.6	42.6	51.7	55.9	56.4	59.5	61.2	63.0	64.3	64.5	64.5	64.8	65.3	66.3	67.8
≥ 3000		43.3	45.5	55.2	59.7	60.1	63.4	65.1	67.0	68.4	68.7	68.7	69.2	69.8	70.7	72.2
≥ 2500		44.9	47.3	57.8	62.4	62.9	66.3	68.0	69.9	71.3	71.6	71.6	72.1	72.7	73.7	75.2
≥ 2000		46.3	48.7	59.2	63.8	64.3	67.7	69.5	71.4	72.8	73.1	73.1	73.6	74.2	75.2	76.7
≥ 1500		46.3	50.8	61.9	66.7	67.3	70.8	72.7	74.5	75.9	76.3	76.3	76.7	77.3	78.8	79.9
≥ 1000		48.5	51.7	62.1	67.0	67.6	71.0	72.9	74.8	76.2	76.5	76.5	77.0	77.6	78.6	80.1
≥ 800		49.8	52.4	64.0	69.1	69.7	73.4	75.3	77.3	78.7	79.1	79.1	79.5	80.1	81.2	82.7
≥ 700		51.0	54.1	65.8	71.3	72.0	75.8	77.9	79.9	81.3	81.6	81.6	82.1	82.7	83.7	85.2
≥ 600		51.6	54.9	66.9	72.4	73.1	77.0	79.1	81.7	82.4	82.8	82.8	83.3	83.8	84.9	86.4
≥ 500		52.1	55.3	67.3	72.9	73.7	77.7	79.9	81.9	83.3	83.6	83.6	84.1	84.7	85.7	87.2
≥ 400		52.3	55.7	67.9	73.7	74.5	79.1	81.3	83.4	84.8	85.1	85.1	85.6	86.2	87.2	88.7
≥ 300		52.3	55.9	68.5	74.7	75.5	80.2	82.4	84.5	85.9	86.3	86.3	86.7	87.3	88.4	89.9
≥ 200		52.3	55.9	68.8	75.2	76.2	80.9	83.3	85.3	86.7	87.1	87.1	87.6	88.1	89.2	90.7
≥ 100		52.7	56.3	69.5	76.3	77.2	82.2	84.8	86.9	88.4	88.7	88.7	89.2	89.8	90.8	92.3
≥ 50		52.7	56.4	69.6	76.5	77.7	82.8	85.8	88.1	89.9	90.2	90.2	90.9	91.5	92.6	94.3
≥ 20		52.7	56.5	70.1	76.9	78.0	83.3	86.5	88.8	90.8	91.3	91.3	92.0	92.9	94.7	96.2
≥ 10		52.7	56.5	70.1	76.9	78.0	83.3	86.5	88.8	91.2	91.6	91.6	92.4	93.6	95.1	97.9
≥ 5		52.7	56.5	70.1	76.9	78.0	83.3	86.5	88.8	91.2	91.7	91.7	92.6	94.0	95.6	99.9
≥ 1		52.7	56.5	70.1	76.9	78.0	83.3	86.5	88.8	91.2	91.7	91.7	92.6	94.7	95.6	99.9

TOTAL NUMBER OF OBSERVATIONS 860

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AF WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION  
15621

ALCONBURY RAF UK  
STATION NAME

73-87  
YEARS

AUG  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

900-1100  
HOURS UTC

VISIBILITY (STATUTE MILES)	CEILING (HUNDREDS OF METERS)															
	>10	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
>10	27.3	27.8	30.8	31.5	31.6	31.9	32.0	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3
26	34.9	35.5	39.9	41.0	41.1	41.6	41.9	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1
25	35.0	35.6	40.0	41.1	41.2	41.7	42.0	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2
24	35.1	35.6	40.0	41.1	41.2	41.7	42.0	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2
23	35.6	36.5	40.9	42.0	42.2	42.8	43.1	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
22	37.9	38.8	43.5	44.6	44.8	45.5	45.7	46.1	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3
21	39.1	40.0	44.8	45.9	46.1	46.8	47.0	47.5	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6
20	43.9	44.9	49.9	51.0	51.3	52.4	52.6	53.1	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3
19	44.9	45.9	51.0	52.1	52.4	53.6	54.1	54.5	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
18	45.2	46.1	51.2	52.3	52.6	53.9	54.3	54.7	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
17	47.5	48.6	53.7	55.0	55.3	56.5	56.9	57.4	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
16	50.4	51.5	56.9	58.1	58.5	59.8	60.4	60.8	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
15	54.5	55.7	61.5	62.7	63.0	64.6	65.2	66.0	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2
14	59.4	60.7	66.4	67.7	68.1	69.7	70.4	71.7	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5
13	64.9	66.2	72.5	73.8	74.1	75.9	76.5	77.4	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
12	66.9	68.2	74.9	76.2	76.5	78.3	79.0	79.8	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1
11	70.3	71.7	79.2	80.5	80.8	82.6	83.3	84.1	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
10	71.1	72.6	80.1	81.4	81.7	83.6	84.3	85.1	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
9	74.1	75.6	83.1	84.5	84.8	86.7	87.4	88.3	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5
8	75.1	76.9	84.8	86.5	86.8	88.7	89.4	90.4	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
7	76.1	78.0	86.2	88.0	88.3	90.2	91.1	92.1	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
6	76.4	78.3	86.9	88.8	89.2	91.3	92.2	93.2	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
5	76.5	78.4	87.0	89.1	89.5	91.7	92.7	93.7	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
4	77.0	78.9	87.6	89.8	90.3	92.5	93.6	94.6	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
3	77.2	79.1	88.0	90.2	90.7	93.2	94.4	95.4	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
2	77.2	79.3	88.8	91.2	91.7	94.3	95.6	96.7	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
1	77.3	79.4	88.9	91.3	92.0	94.6	96.3	97.8	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
0	77.3	79.4	88.9	91.4	92.1	94.7	96.7	98.2	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
0	77.3	79.4	88.9	91.4	92.1	94.7	96.7	98.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
0	77.3	79.4	88.9	91.4	92.1	94.7	96.7	98.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3

TOTAL NUMBER OF OBSERVATIONS 906

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION 35521 ALCONBURY RAF UK

73-87

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

12 0-1000  
FOOT

ELEVATION FEET	VISIBILITY STATUTE MILES															
	20	20	24	21	22	22	21	21	21	21	21	21	21	21	21	20
OR (HUNDREDS OF METERS)	20	20	24	21	22	22	21	21	21	21	21	21	21	21	21	20
2000	28.8	29.7	31.1	31.1	31.1	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2
1800	37.3	38.5	40.9	41.0	41.0	41.2	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
1600	37.6	38.8	41.2	41.3	41.3	41.5	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6
1400	37.6	38.8	41.2	41.3	41.3	41.5	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6
1200	38.1	39.2	41.6	41.7	41.7	41.9	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0
1000	35.1	40.3	42.9	43.0	43.0	43.2	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
800	41.2	42.5	45.1	45.2	45.2	45.4	45.6	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
600	41.8	43.1	45.9	46.0	46.0	46.3	46.6	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7
400	45.5	46.8	49.8	49.9	49.9	50.2	50.4	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5
200	46.8	48.1	51.1	51.2	51.2	51.6	52.0	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2
0	47.0	48.3	51.3	51.4	51.4	51.8	52.3	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
1000	51.4	52.7	56.1	56.3	56.3	56.8	57.2	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
800	55.8	57.1	60.8	61.0	61.0	61.4	61.8	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
600	64.4	65.3	68.9	69.1	69.1	69.4	70.0	70.1	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
400	72.4	74.0	77.8	78.1	78.1	78.6	79.0	79.1	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
200	79.2	80.8	84.7	85.1	85.1	85.7	86.2	86.3	86.5	86.6	86.6	86.6	86.6	86.6	86.6	86.6
0	80.9	82.7	86.8	87.7	87.3	88.0	88.5	88.6	88.7	88.8	88.8	88.8	88.8	88.8	88.8	88.8
1000	83.5	85.4	89.9	90.6	90.6	91.4	91.9	92.0	92.2	92.3	92.3	92.3	92.3	92.3	92.3	92.3
800	84.1	85.9	90.4	91.2	91.2	91.9	92.5	92.6	92.7	92.8	92.8	92.8	92.8	92.8	92.8	92.8
600	85.3	87.1	92.2	93.2	93.2	94.7	94.5	94.6	94.7	94.6	94.8	94.8	94.8	94.8	94.8	94.8
400	86.3	88.1	93.1	94.5	94.5	95.5	96.1	96.1	96.2	96.3	96.3	96.3	96.3	96.3	96.3	96.3
200	86.8	88.5	93.9	95.5	95.5	96.5	97.1	97.2	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4
0	86.9	88.9	94.4	96.0	96.0	97.3	97.6	97.7	97.8	98.0	98.0	98.0	98.0	98.0	98.0	98.0
1000	86.9	89.0	94.7	96.5	96.6	97.5	98.2	98.3	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5
800	86.9	89.0	94.9	96.7	96.8	97.7	98.5	98.6	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8
600	86.9	89.0	94.9	96.9	97.0	98.0	98.8	99.0	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2
400	87.0	89.2	95.2	97.1	97.2	98.3	99.1	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6
200	87.0	89.2	95.2	97.1	97.2	98.4	99.4	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9
0	87.0	89.2	95.2	97.1	97.2	98.5	99.5	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1000	87.0	89.2	95.2	97.1	97.2	98.5	99.5	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
800	87.0	89.2	95.2	97.1	97.2	98.5	99.5	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
600	87.0	89.2	95.2	97.1	97.2	98.5	99.5	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
400	87.0	89.2	95.2	97.1	97.2	98.5	99.5	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
200	87.0	89.2	95.2	97.1	97.2	98.5	99.5	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	87.0	89.2	95.2	97.1	97.2	98.5	99.5	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

USAF ETAC 0-14.5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

75621

ALCONBURY RAF UK

73-87

AUG

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1510-1700

VISIBILITY	OR (HUNDREDS OF METERS)															
	210	200	180	160	140	120	100	80	60	40	20	10	5	2.5	1.5	1.0
>16	32.4	32.9	33.3	33.4	33.4	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7
16	38.9	39.7	40.9	41.0	41.0	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
14	39.0	39.8	41.0	41.1	41.1	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4
12	39.2	40.1	41.3	41.4	41.4	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8
10	39.4	40.3	41.5	41.7	41.7	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0
8	40.4	41.3	42.7	42.8	42.8	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1
6	44.9	45.7	47.1	47.2	47.3	47.6	47.6	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
4	46.7	47.6	49.0	49.1	49.2	49.5	49.5	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
2	51.0	52.0	53.6	53.8	53.9	54.3	54.3	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
1	52.3	53.3	55.0	55.2	55.4	55.7	55.7	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8
0.5	52.4	53.4	55.1	55.4	55.5	55.8	55.8	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9
0.25	58.0	59.1	61.4	61.7	61.9	62.2	62.2	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
0.1	63.3	64.5	67.1	67.4	67.6	68.0	68.0	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
0.05	72.9	74.1	77.1	77.5	77.7	78.2	78.2	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5
0.025	76.8	78.2	83.4	83.8	84.1	84.8	84.8	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
0.01	81.9	83.6	87.1	87.4	87.7	88.5	88.6	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
0.005	83.6	85.5	89.0	89.3	89.6	90.4	90.5	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
0.0025	85.5	87.4	91.4	91.8	92.2	93.1	93.3	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
0.001	86.0	87.8	91.9	92.4	92.7	93.7	93.8	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
0.0005	86.6	88.5	92.9	93.4	93.7	94.7	94.6	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
0.00025	87.2	89.1	93.9	94.5	94.8	95.9	96.0	96.2	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
0.0001	87.6	89.5	94.6	95.4	95.7	96.8	97.0	97.2	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
0.00005	87.6	89.5	94.7	95.5	95.8	96.9	97.1	97.3	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
0.000025	87.7	89.8	95.0	95.8	96.1	97.2	97.5	97.7	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
0.00001	87.7	89.8	95.1	95.9	96.2	97.5	97.7	97.9	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
0.000005	88.0	90.1	95.5	96.4	96.8	98.1	98.3	98.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
0.0000025	88.0	90.2	95.6	96.7	97.1	98.6	99.0	99.2	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
0.000001	88.0	90.2	95.7	96.8	97.2	98.8	99.2	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
0.0000005	88.0	90.2	95.8	96.9	97.3	98.9	99.3	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
0.00000025	88.0	90.2	95.8	96.9	97.3	99.0	99.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0.0000001	88.0	90.2	95.8	96.9	97.3	99.0	99.4	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 905

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

7562 ALCONBURY RAF UK

73-82

AME

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1870-2000

CEILING FEET	VISIBILITY STATUTE MILES										OR (HUNDREDS OF METERS)									
	210	20	25	24	23	22	22	21	21	21	24	24	24	24	2516	21	20			
	210	GE9	GE8	GE6	GE4	GE4	GE32	GE24	GE2	GE16	GE12	GE10	GE08	GE05	GE04	GE0				
20000		35.9	37.3	39.6	39.8	39.8	39.8	39.8	39.8	40.0	40.0	40.0	40.0	40.0	40.0	40.0				
18000		43.3	45.5	48.5	48.9	48.9	48.9	48.9	48.9	49.1	49.1	49.1	49.1	49.1	49.1	49.1				
16000		43.5	45.8	48.8	49.2	49.2	49.2	49.2	49.2	49.3	49.3	49.3	49.3	49.3	49.3	49.3				
14000		43.6	45.9	48.9	49.3	49.3	49.3	49.3	49.3	49.4	49.4	49.4	49.4	49.4	49.4	49.4				
12000		44.4	46.7	49.7	50.1	50.1	50.1	50.1	50.1	50.2	50.2	50.2	50.2	50.2	50.2	50.2				
10000		47.2	49.4	52.5	52.8	52.8	52.8	52.8	52.8	53.0	53.0	53.0	53.0	53.0	53.0	53.0				
8000		49.7	52.0	55.1	55.5	55.5	55.5	55.5	55.5	55.6	55.6	55.6	55.6	55.6	55.6	55.6				
6000		54.7	57.4	60.7	61.2	61.2	61.3	61.5	61.5	61.7	61.7	61.7	61.7	61.7	61.7	61.7				
4000		55.7	58.5	62.3	62.8	62.8	62.9	63.2	63.2	63.3	63.3	63.3	63.3	63.3	63.3	63.3				
2000		56.6	59.4	63.2	63.7	63.7	63.8	64.1	64.1	64.2	64.2	64.2	64.2	64.2	64.2	64.2				
1000		61.0	62.8	66.7	67.6	67.6	68.1	68.5	68.5	68.6	68.6	68.6	68.6	68.6	68.6	68.6				
500		65.3	68.1	72.6	73.5	73.5	74.0	74.4	74.4	74.7	74.7	74.7	74.7	74.7	74.7	74.7				
250		71.8	74.8	79.6	80.6	80.8	81.5	82.3	82.3	82.6	82.6	82.6	82.6	82.6	82.6	82.6				
100		74.3	77.4	82.6	83.6	83.9	84.5	85.4	85.4	85.6	85.6	85.6	85.6	85.6	85.6	85.6				
50		77.3	81.1	86.3	87.3	87.5	88.1	89.2	89.2	89.5	89.5	89.5	89.5	89.5	89.5	89.5				
25		76.4	80.1	87.4	88.4	88.7	89.3	90.3	90.3	90.8	90.8	90.8	90.8	90.8	90.8	90.8				
10		79.6	83.2	88.7	89.9	90.2	90.8	92.1	92.1	92.6	92.6	92.6	92.6	92.6	92.6	92.6				
5		81.1	83.9	89.4	90.8	91.0	91.7	92.9	92.9	93.4	93.4	93.4	93.4	93.4	93.4	93.4				
2		81.3	84.1	90.0	91.6	91.8	92.6	93.8	93.8	94.3	94.3	94.3	94.3	94.3	94.3	94.3				
1		81.1	84.9	91.3	92.8	93.1	94.1	95.5	95.5	96.0	96.0	96.0	96.0	96.0	96.0	96.0				
0.5		81.1	85.1	91.6	93.1	93.3	94.3	95.7	95.7	96.6	96.7	96.7	96.8	96.8	96.8	96.8				
0.25		81.3	85.2	91.8	93.3	93.6	94.6	96.0	96.0	96.8	97.0	97.0	97.1	97.1	97.1	97.1				
0.1		81.6	85.9	92.6	94.3	94.6	95.6	97.0	97.0	97.9	98.1	98.1	98.2	98.2	98.2	98.2				
0.05		81.7	86.1	92.9	94.5	94.7	95.7	97.1	97.1	98.0	98.1	98.1	98.2	98.2	98.2	98.2				
0.025		81.7	86.2	92.9	94.5	94.7	95.7	97.1	97.1	98.0	98.1	98.1	98.2	98.2	98.2	98.2				
0.01		81.7	86.2	93.1	94.8	95.1	97.0	98.7	98.7	99.7	99.9	99.9	100.0	100.0	100.0	100.0				
0.005		81.7	86.2	93.1	94.8	95.1	97.0	98.7	98.7	99.7	99.9	99.9	100.0	100.0	100.0	100.0				
0.0025		81.7	86.2	93.1	94.8	95.1	97.0	98.7	98.7	99.7	99.9	99.9	100.0	100.0	100.0	100.0				
0.001		81.7	86.2	93.1	94.8	95.1	97.0	98.7	98.7	99.7	99.9	99.9	100.0	100.0	100.0	100.0				
0.0005		81.7	86.2	93.1	94.8	95.1	97.0	98.7	98.7	99.7	99.9	99.9	100.0	100.0	100.0	100.0				
0.00025		81.7	86.2	93.1	94.8	95.1	97.0	98.7	98.7	99.7	99.9	99.9	100.0	100.0	100.0	100.0				
0.0001		81.7	86.2	93.1	94.8	95.1	97.0	98.7	98.7	99.7	99.9	99.9	100.0	100.0	100.0	100.0				
0.00005		81.7	86.2	93.1	94.8	95.1	97.0	98.7	98.7	99.7	99.9	99.9	100.0	100.0	100.0	100.0				
0.000025		81.7	86.2	93.1	94.8	95.1	97.0	98.7	98.7	99.7	99.9	99.9	100.0	100.0	100.0	100.0				
0.00001		81.7	86.2	93.1	94.8	95.1	97.0	98.7	98.7	99.7	99.9	99.9	100.0	100.0	100.0	100.0				

TOTAL NUMBER OF OBSERVATIONS 793

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

75621 ALCONBURY RAF UK

73-87

AME

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300  
HOURS (LT)

CEILING FEET	VISIBILITY: STATUTE MILES															
	210	20	25	24	23	22	21	20	19	18	17	16	15	14	13	12
NO CEILING	45.3	46.6	50.5	57.8	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1
2000	50.1	52.1	56.5	56.9	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
1800	50.1	52.1	56.5	56.9	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
1600	50.1	52.1	56.5	56.9	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
1400	50.1	52.1	56.5	56.9	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
1200	50.2	52.2	56.6	57.0	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5
1000	52.7	54.7	59.2	59.7	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1
900	54.0	56.0	60.5	61.0	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4
800	56.7	59.1	63.9	64.4	64.9	65.0	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5
700	58.3	61.0	65.9	66.8	67.2	67.3	67.8	67.8	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9
600	59.2	61.8	66.8	67.6	68.1	68.2	68.7	68.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
500	62.3	65.0	70.1	71.7	72.1	72.7	73.4	73.6	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7
400	65.2	67.9	73.1	74.7	75.2	76.1	76.8	76.9	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
300	70.2	73.0	78.2	79.8	80.3	81.1	81.9	82.0	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
250	72.1	74.9	80.1	81.7	82.1	83.0	83.7	83.9	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2
200	74.6	77.5	83.3	84.9	85.3	86.4	87.1	87.2	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
150	75.2	78.1	84.0	85.8	86.2	87.2	88.0	88.1	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
100	75.6	78.8	85.1	86.9	87.4	88.7	89.7	89.8	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
80	76.1	79.2	85.6	87.5	88.1	89.4	90.4	90.6	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
60	77.1	80.3	86.6	88.5	89.1	90.6	91.7	91.9	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
40	78.5	81.7	88.7	90.7	91.3	92.7	93.9	94.2	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
20	79.0	82.1	89.7	91.7	92.3	93.9	95.1	95.4	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
10	79.0	82.1	89.8	91.9	92.5	94.0	95.2	95.5	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
5	79.1	82.6	90.4	92.5	93.0	94.0	96.1	96.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
0	79.1	82.6	90.4	92.5	93.0	94.9	96.1	96.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
2000	79.1	82.7	90.6	92.6	93.2	95.6	97.0	97.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
1800	79.1	82.7	90.7	92.7	93.3	95.9	97.5	97.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
1600	79.1	82.7	90.9	92.9	93.5	96.2	97.8	98.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
1400	79.1	82.7	90.9	93.3	93.9	96.7	98.3	98.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
1200	79.1	82.7	90.9	93.3	93.9	96.7	98.3	98.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
1000	79.1	82.7	90.9	93.3	93.9	96.7	98.3	98.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
800	79.1	82.7	90.9	93.3	93.9	96.7	98.3	98.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
600	79.1	82.7	90.9	93.3	93.9	96.7	98.3	98.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
400	79.1	82.7	90.9	93.3	93.9	96.7	98.3	98.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
200	79.1	82.7	90.9	93.3	93.9	96.7	98.3	98.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
100	79.1	82.7	90.9	93.3	93.9	96.7	98.3	98.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
0	79.1	82.7	90.9	93.3	93.9	96.7	98.3	98.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9

TOTAL NUMBER OF OBSERVATIONS 689

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION 5621 ALCONBURY RAF UK

73-82

YEARS

DATE

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL

CEILING FEET	VISIBILITY: STATUTE MILES															
	OR (HUNDREDS OF METERS)															
	≥ 10 > 16	≥ 6 GE90	≥ 5 GE80	≥ 4 GE60	≥ 3 GE40	≥ 2 GE32	≥ 2 GE24	≥ 1 GE20	≥ 1 GE16	≥ 1 GE12	≥ 1 GE10	≥ 1 GE80	≥ 1 GE65	≥ 1 GE50	≥ 1 GE30	≥ 1 GE20
NO CEILING ≥ 20000		31.9	33.2	36.3	37.0	37.1	38.0	38.4	38.6	38.8	38.9	39.0	39.1	39.2	39.4	39.8
≥ 18000		37.6	39.2	43.0	43.8	44.1	45.1	45.5	45.8	46.0	46.1	46.2	46.3	46.5	46.6	47.0
≥ 16000		37.7	39.4	43.1	44.0	44.2	45.2	45.7	46.0	46.2	46.3	46.3	46.5	46.6	46.8	47.2
≥ 14000		37.8	39.4	43.2	44.1	44.3	45.3	45.8	46.1	46.3	46.3	46.4	46.5	46.7	46.8	47.3
≥ 12000		37.9	39.6	43.3	44.2	44.4	45.4	45.9	46.2	46.4	46.5	46.5	46.7	46.8	47.0	47.4
≥ 10000		38.5	40.2	44.0	44.9	45.1	46.2	46.7	47.0	47.2	47.2	47.3	47.4	47.6	47.7	48.2
≥ 8000		41.2	42.9	47.1	48.0	48.3	49.4	49.9	50.3	50.6	50.6	50.7	50.8	51.0	51.1	51.6
≥ 6000		42.5	44.3	48.5	49.4	49.7	50.8	51.3	51.7	52.0	52.0	52.1	52.2	52.4	52.5	53.0
≥ 4000		46.4	48.3	52.9	54.0	54.3	55.6	56.2	56.6	57.0	57.1	57.2	57.3	57.5	57.7	58.1
≥ 2000		47.5	49.5	54.3	55.4	55.8	57.2	57.8	58.3	58.7	58.7	58.8	59.0	59.2	59.3	59.7
≥ 1000		47.9	49.8	54.6	55.8	56.1	57.5	58.2	58.6	59.0	59.1	59.2	59.3	59.5	59.7	60.1
≥ 500		50.9	52.9	58.0	59.4	59.7	61.2	61.9	62.4	62.8	62.9	63.0	63.1	63.3	63.5	63.9
≥ 400		54.8	56.9	62.3	63.6	64.0	65.6	66.3	66.7	67.2	67.3	67.4	67.5	67.7	67.9	68.3
≥ 300		60.2	62.3	68.0	69.5	69.9	71.6	72.3	72.9	73.5	73.5	73.6	73.8	74.0	74.1	74.6
≥ 200		64.1	66.4	72.3	73.9	74.3	76.1	76.9	77.5	78.1	78.1	78.2	78.4	78.6	78.8	79.2
≥ 150		67.4	69.9	76.2	77.8	78.2	80.1	80.9	81.6	82.1	82.2	82.3	82.5	82.7	82.9	83.3
≥ 100		68.7	71.2	77.7	79.3	79.8	81.7	82.5	83.0	83.8	83.9	84.0	84.2	84.4	84.5	85.0
≥ 80		70.7	73.4	80.3	82.1	82.5	84.6	85.5	86.1	86.7	86.8	86.9	87.1	87.3	87.5	87.9
≥ 60		71.2	73.9	80.9	82.7	83.1	85.2	86.1	86.7	87.3	87.4	87.5	87.7	87.9	88.1	88.5
≥ 40		72.4	75.1	82.5	84.4	84.8	86.9	87.9	88.6	89.2	89.3	89.4	89.6	89.8	89.9	90.4
≥ 20		73.3	76.2	83.9	86.0	86.5	88.7	89.7	90.4	91.0	91.1	91.2	91.4	91.6	91.7	92.2
≥ 10		73.8	76.7	84.8	87.0	87.4	89.7	90.8	91.4	92.1	92.3	92.4	92.6	92.8	92.9	93.4
≥ 500		74.1	77.0	85.2	87.4	87.9	90.2	91.3	92.0	92.7	92.9	92.9	93.1	93.3	93.5	94.0
≥ 400		74.2	77.3	85.6	87.9	88.4	90.9	92.0	92.7	93.4	93.6	93.7	93.9	94.1	94.2	94.7
≥ 300		74.3	77.4	85.8	88.2	88.8	91.3	92.5	93.2	93.9	94.0	94.2	94.4	94.6	94.7	95.2
≥ 200		74.3	77.5	86.3	88.7	89.3	92.0	93.3	94.0	94.8	94.9	95.0	95.2	95.4	95.6	96.0
≥ 100		74.4	77.7	86.7	89.3	89.9	92.7	94.2	94.9	95.8	95.9	96.0	96.2	96.4	96.6	97.0
≥ 80		74.4	77.7	86.8	89.5	90.1	93.1	94.7	95.7	96.7	96.9	97.0	97.3	97.5	97.7	98.2
≥ 60		74.4	77.7	86.9	89.6	90.3	93.4	95.1	96.2	97.2	97.4	97.5	97.8	98.1	98.3	98.9
≥ 40		74.4	77.7	86.9	89.6	90.3	93.4	95.2	96.2	97.4	97.6	97.8	98.1	98.5	98.8	99.5
≥ 20		74.4	77.7	86.9	89.6	90.3	93.5	95.2	96.2	97.4	97.6	97.8	98.2	98.6	98.9	100.0
≥ 10		74.4	77.7	86.9	89.6	90.3	93.5	95.2	96.2	97.4	97.6	97.8	98.2	98.6	98.9	100.0

TOTAL NUMBER OF OBSERVATIONS 6880

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

15621

ALCONBURY RAF UK

73-87

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

000-0200

CEILING (FEET)	VISIBILITY: STATUTE MILES OR (HUNDREDS OF METERS)															
	≥ 10	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
≥ 10000	31.7	33.5	37.9	39.9	41.1	42.3	43.4	44.3	44.6	45.7	45.0	45.2	45.4	45.5	45.5	45.5
9000	30.2	38.7	43.6	45.0	45.2	47.4	48.5	49.4	49.7	50.1	50.5	50.5	50.6	50.8	51.0	51.0
8000	30.6	38.6	43.4	45.4	45.5	47.7	48.8	49.7	50.1	50.5	50.5	50.6	50.8	51.0	51.0	51.0
7000	30.6	38.6	43.4	45.4	45.5	47.7	48.8	49.7	50.1	50.5	50.5	50.6	50.8	51.0	51.0	51.0
6000	30.6	38.6	43.4	45.4	45.5	47.7	48.8	49.7	50.1	50.5	50.5	50.6	50.8	51.0	51.0	51.0
5000	37.3	39.5	44.4	46.4	46.6	48.8	50.5	51.4	51.7	52.1	52.1	52.3	52.5	52.6	52.6	52.6
4000	38.3	40.4	45.4	47.4	47.7	50.3	51.9	52.8	53.2	53.6	53.6	53.7	53.9	54.1	54.1	54.1
3000	43.7	46.1	51.2	53.2	53.6	56.1	57.9	58.8	59.4	59.7	59.7	59.9	60.1	60.3	60.3	60.3
2000	44.6	47.2	52.3	54.3	54.6	57.4	59.4	60.3	60.8	61.2	61.2	61.6	61.7	61.9	61.9	61.9
1000	45.5	48.1	53.4	55.4	55.7	58.7	60.8	61.7	62.3	62.7	62.7	63.0	63.2	63.4	63.4	63.4
500	47.7	50.3	56.3	58.3	58.7	61.7	63.9	64.8	65.4	65.8	65.8	66.1	66.3	66.5	66.5	66.5
200	50.8	53.4	59.9	61.9	62.3	65.4	67.6	68.5	69.0	69.4	69.4	69.8	69.9	70.1	70.1	70.1
100	54.1	56.6	63.4	65.4	65.8	68.9	71.4	72.3	72.9	73.2	73.2	73.6	73.8	74.0	74.0	74.0
50	58.3	61.7	68.7	70.7	71.0	74.1	76.7	77.6	78.1	78.5	78.5	78.9	79.1	79.2	79.2	79.2
25	60.1	63.0	71.2	73.4	73.8	77.6	80.1	81.1	81.6	82.0	82.0	82.3	82.5	82.7	82.7	82.7
10	61.6	64.5	73.4	75.6	76.0	79.8	82.3	83.2	83.8	84.2	84.2	84.5	84.7	84.9	84.9	84.9
5	64.1	67.2	76.3	78.5	79.1	82.9	85.4	86.5	87.1	87.4	87.4	87.8	88.0	88.2	88.2	88.2
2	64.5	67.8	76.9	79.1	79.6	83.6	86.2	87.2	87.8	88.2	88.2	88.5	88.7	88.9	88.9	88.9
1	66.3	69.6	79.2	81.4	82.0	86.0	88.7	89.8	90.3	90.9	90.9	91.3	91.4	91.6	91.6	91.6
0.5	67.6	71.0	80.7	82.9	83.4	87.4	90.3	91.4	92.0	92.5	92.5	92.9	93.1	93.3	93.3	93.3
0.25	69.2	72.9	82.7	84.9	85.4	89.4	92.3	93.4	94.2	94.7	94.7	95.1	95.3	95.4	95.4	95.4
0.1	69.6	73.2	83.2	85.4	86.2	90.2	93.1	94.2	94.9	95.4	95.4	95.8	96.0	96.2	96.2	96.2
0.05	70.1	73.8	83.8	86.0	86.7	90.7	93.6	94.7	95.4	96.0	96.0	96.4	96.5	96.7	96.7	96.7
0.025	70.3	74.3	84.3	86.5	87.2	91.3	94.2	95.3	96.2	96.7	96.7	97.1	97.3	97.4	97.4	97.4
0.01	70.3	74.3	84.5	86.9	87.6	91.6	94.7	95.8	96.7	97.3	97.3	97.6	97.8	98.0	98.0	98.0
0.005	70.5	74.5	84.9	87.6	88.3	92.5	95.6	96.7	97.6	98.2	98.2	98.5	98.7	98.9	98.9	98.9
0.0025	70.5	74.7	85.6	88.3	89.1	93.3	96.4	97.6	98.5	99.1	99.1	99.5	99.6	99.8	99.8	99.8
0.001	70.5	74.7	85.6	88.3	89.1	93.3	96.4	97.6	98.5	99.1	99.1	99.5	99.6	99.8	99.8	99.8
0.0005	70.5	74.7	85.6	88.3	89.1	93.3	96.4	97.6	98.5	99.1	99.1	99.5	99.6	99.8	99.8	99.8
0.00025	70.5	74.7	85.6	88.3	89.1	93.3	96.4	97.6	98.5	99.1	99.1	99.5	99.6	99.8	99.8	99.8
0.0001	70.5	74.7	85.6	88.3	89.1	93.3	96.4	97.6	98.5	99.1	99.1	99.5	99.6	99.8	99.8	99.8

TOTAL NUMBER OF OBSERVATIONS 549

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

75-21 ALCONBURY RAF UK

73-82

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

100-0500

ELEVATION FEET	VISIBILITY: STATUTE MILES															
	210	20	25	24	23	22	22	21	21	21	24	24	21	2510	24	20
	GE16	GE9	GE8	GE6	GE4	GE4	GE32	GE24	GE2	GE16	GE12	GE10	GE08	GE05	GE04	GE0
1000	30.3	31.8	35.7	36.7	37.1	39.5	40.8	40.8	42.4	42.9	43.3	44.7	44.3	44.7	44.7	45.4
900	33.0	35.3	39.7	40.7	41.2	43.8	45.1	45.1	46.7	47.2	47.6	48.4	48.7	49.7	49.7	49.8
800	33.0	35.3	39.7	40.7	41.2	43.8	45.1	45.1	46.7	47.2	47.6	48.4	48.7	49.7	49.7	49.8
700	33.0	35.3	39.7	40.7	41.2	43.8	45.1	45.1	46.7	47.2	47.6	48.4	48.7	49.7	49.7	49.8
600	33.0	35.3	39.7	40.7	41.2	43.8	45.1	45.1	46.7	47.2	47.6	48.4	48.7	49.7	49.7	49.8
500	33.0	35.3	39.7	40.7	41.2	43.8	45.1	45.1	46.7	47.2	47.6	48.4	48.7	49.7	49.7	49.8
400	33.0	35.3	39.7	40.7	41.2	43.8	45.1	45.1	46.7	47.2	47.6	48.4	48.7	49.7	49.7	49.8
300	33.0	35.3	39.7	40.7	41.2	43.8	45.1	45.1	46.7	47.2	47.6	48.4	48.7	49.7	49.7	49.8
200	33.0	35.3	39.7	40.7	41.2	43.8	45.1	45.1	46.7	47.2	47.6	48.4	48.7	49.7	49.7	49.8
100	33.0	35.3	39.7	40.7	41.2	43.8	45.1	45.1	46.7	47.2	47.6	48.4	48.7	49.7	49.7	49.8
0	33.0	35.3	39.7	40.7	41.2	43.8	45.1	45.1	46.7	47.2	47.6	48.4	48.7	49.7	49.7	49.8
1000	33.0	35.3	39.7	40.7	41.2	43.8	45.1	45.1	46.7	47.2	47.6	48.4	48.7	49.7	49.7	49.8
900	33.0	35.3	39.7	40.7	41.2	43.8	45.1	45.1	46.7	47.2	47.6	48.4	48.7	49.7	49.7	49.8
800	33.0	35.3	39.7	40.7	41.2	43.8	45.1	45.1	46.7	47.2	47.6	48.4	48.7	49.7	49.7	49.8
700	33.0	35.3	39.7	40.7	41.2	43.8	45.1	45.1	46.7	47.2	47.6	48.4	48.7	49.7	49.7	49.8
600	33.0	35.3	39.7	40.7	41.2	43.8	45.1	45.1	46.7	47.2	47.6	48.4	48.7	49.7	49.7	49.8
500	33.0	35.3	39.7	40.7	41.2	43.8	45.1	45.1	46.7	47.2	47.6	48.4	48.7	49.7	49.7	49.8
400	33.0	35.3	39.7	40.7	41.2	43.8	45.1	45.1	46.7	47.2	47.6	48.4	48.7	49.7	49.7	49.8
300	33.0	35.3	39.7	40.7	41.2	43.8	45.1	45.1	46.7	47.2	47.6	48.4	48.7	49.7	49.7	49.8
200	33.0	35.3	39.7	40.7	41.2	43.8	45.1	45.1	46.7	47.2	47.6	48.4	48.7	49.7	49.7	49.8
100	33.0	35.3	39.7	40.7	41.2	43.8	45.1	45.1	46.7	47.2	47.6	48.4	48.7	49.7	49.7	49.8
0	33.0	35.3	39.7	40.7	41.2	43.8	45.1	45.1	46.7	47.2	47.6	48.4	48.7	49.7	49.7	49.8
1000	33.0	35.3	39.7	40.7	41.2	43.8	45.1	45.1	46.7	47.2	47.6	48.4	48.7	49.7	49.7	49.8
900	33.0	35.3	39.7	40.7	41.2	43.8	45.1	45.1	46.7	47.2	47.6	48.4	48.7	49.7	49.7	49.8
800	33.0	35.3	39.7	40.7	41.2	43.8	45.1	45.1	46.7	47.2	47.6	48.4	48.7	49.7	49.7	49.8
700	33.0	35.3	39.7	40.7	41.2	43.8	45.1	45.1	46.7	47.2	47.6	48.4	48.7	49.7	49.7	49.8
600	33.0	35.3	39.7	40.7	41.2	43.8	45.1	45.1	46.7	47.2	47.6	48.4	48.7	49.7	49.7	49.8
500	33.0	35.3	39.7	40.7	41.2	43.8	45.1	45.1	46.7	47.2	47.6	48.4	48.7	49.7	49.7	49.8
400	33.0	35.3	39.7	40.7	41.2	43.8	45.1	45.1	46.7	47.2	47.6	48.4	48.7	49.7	49.7	49.8
300	33.0	35.3	39.7	40.7	41.2	43.8	45.1	45.1	46.7	47.2	47.6	48.4	48.7	49.7	49.7	49.8
200	33.0	35.3	39.7	40.7	41.2	43.8	45.1	45.1	46.7	47.2	47.6	48.4	48.7	49.7	49.7	49.8
100	33.0	35.3	39.7	40.7	41.2	43.8	45.1	45.1	46.7	47.2	47.6	48.4	48.7	49.7	49.7	49.8
0	33.0	35.3	39.7	40.7	41.2	43.8	45.1	45.1	46.7	47.2	47.6	48.4	48.7	49.7	49.7	49.8
1000	33.0	35.3	39.7	40.7	41.2	43.8	45.1	45.1	46.7	47.2	47.6	48.4	48.7	49.7	49.7	49.8
900	33.0	35.3	39.7	40.7	41.2	43.8	45.1	45.1	46.7	47.2	47.6	48.4	48.7	49.7	49.7	49.8
800	33.0	35.3	39.7	40.7	41.2	43.8	45.1	45.1	46.7	47.2	47.6	48.4	48.7	49.7	49.7	49.8
700	33.0	35.3	39.7	40.7	41.2	43.8	45.1	45.1	46.7	47.2	47.6	48.4	48.7	49.7	49.7	49.8
600	33.0	35.3	39.7	40.7	41.2	43.8	45.1	45.1	46.7	47.2	47.6	48.4	48.7	49.7	49.7	49.8
500	33.0	35.3	39.7	40.7	41.2	43.8	45.1	45.1	46.7	47.2	47.6	48.4	48.7	49.7	49.7	49.8
400	33.0	35.3	39.7	40.7	41.2	43.8	45.1	45.1	46.7	47.2	47.6	48.4	48.7	49.7	49.7	49.8
300	33.0	35.3	39.7	40.7	41.2	43.8	45.1	45.1	46.7	47.2	47.6	48.4	48.7	49.7	49.7	49.8
200	33.0	35.3	39.7	40.7	41.2	43.8	45.1	45.1	46.7	47.2	47.6	48.4	48.7	49.7	49.7	49.8
100	33.0	35.3	39.7	40.7	41.2	43.8	45.1	45.1	46.7	47.2	47.6	48.4	48.7	49.7	49.7	49.8
0	33.0	35.3	39.7	40.7	41.2	43.8	45.1	45.1	46.7	47.2	47.6	48.4	48.7	49.7	49.7	49.8

TOTAL NUMBER OF OBSERVATIONS 179

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

125621

ALCONBURY RAF UK

73-87

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1600-0800

CEILING FEET	VISIBILITY STATUTE MILES															
	210	20	25	24	23	22	21	20	19	18	17	16	15	14	13	12
20000	24.2	25.4	30.3	32.2	32.5	33.9	35.7	35.6	36.6	36.8	36.9	37.3	38.6	39.4	40.5	40.5
18000	27.8	29.0	34.6	37.0	37.5	39.2	40.5	41.1	42.1	42.3	42.5	43.7	44.4	45.2	46.3	46.3
16000	27.8	29.0	34.6	37.0	37.5	39.2	40.5	41.1	42.1	42.3	42.5	43.7	44.4	45.2	46.3	46.3
14000	28.0	29.2	34.8	37.3	37.8	39.5	40.7	41.3	42.3	42.5	42.8	43.3	44.6	45.5	46.6	46.6
12000	28.1	29.3	35.0	37.5	38.0	39.7	41.0	41.6	42.5	42.8	43.0	43.5	44.9	45.7	46.8	46.8
10000	30.1	31.4	37.2	40.0	40.5	42.2	43.4	44.7	45.0	45.2	45.5	46.7	47.3	48.2	49.3	49.3
8000	31.2	32.6	38.4	41.2	41.7	43.6	44.9	45.5	46.5	46.7	46.9	47.4	48.8	49.6	50.7	50.7
6000	35.2	36.7	42.8	45.7	46.6	48.7	49.9	50.6	51.7	52.0	52.2	52.7	54.2	55.0	56.1	56.1
4000	36.1	37.7	43.9	46.8	47.7	49.8	51.0	51.7	52.8	53.1	53.3	53.8	55.3	56.1	57.2	57.2
2000	36.1	37.7	44.0	46.9	47.8	50.1	51.3	52.1	53.2	53.4	53.7	54.2	55.6	56.5	57.6	57.6
1000	36.9	38.8	45.4	48.9	49.8	52.7	54.0	54.8	56.0	56.2	56.5	57.7	58.4	59.3	60.4	60.4
500	39.6	41.6	48.7	52.2	53.1	56.2	57.6	58.3	59.5	59.8	60.0	60.5	62.1	63.0	64.1	64.1
250	43.2	45.2	53.2	56.7	57.6	61.1	62.6	63.3	64.5	64.8	65.0	65.5	67.4	68.2	69.3	69.3
150	45.4	47.4	55.5	59.0	59.9	63.4	64.9	65.6	66.9	67.1	67.4	67.8	69.7	70.5	71.6	71.6
100	48.2	50.2	58.3	62.1	63.7	66.6	68.1	68.8	70.3	70.5	70.8	71.4	73.2	74.1	75.2	75.2
75	49.3	51.5	60.1	63.9	64.8	68.5	69.9	70.7	72.1	72.4	72.6	73.2	75.1	75.9	77.0	77.0
50	52.8	55.3	64.5	68.3	69.2	73.1	74.8	75.7	77.4	77.6	77.9	78.5	80.3	81.2	82.3	82.3
25	53.2	55.6	64.9	68.7	69.6	73.5	75.2	76.2	77.9	78.1	78.4	79.0	80.8	81.7	82.8	82.8
15	55.1	57.6	67.5	71.5	72.4	76.4	78.2	79.2	81.1	81.3	81.5	82.2	84.0	84.8	85.9	85.9
10	56.1	58.6	68.6	72.7	73.6	77.8	79.6	80.6	82.5	82.8	83.0	83.6	85.5	86.3	87.4	87.4
7.5	57.3	59.8	70.0	74.2	75.1	79.3	81.3	82.5	84.6	84.8	85.1	85.7	87.5	88.4	89.5	89.5
5	57.9	60.4	70.8	74.9	75.8	80.1	82.0	83.3	85.3	85.6	85.8	86.4	88.3	89.1	90.2	90.2
2.5	58.7	61.2	71.8	75.9	76.8	81.2	83.1	84.4	86.4	86.7	86.9	87.5	89.4	90.2	91.3	91.3
1.5	59.4	62.0	72.5	76.7	77.5	81.9	84.0	85.5	87.5	87.8	88.0	88.6	90.5	91.3	92.4	92.4
1	59.7	62.2	72.9	77.0	77.9	82.4	84.5	86.1	88.3	88.5	88.8	89.4	91.2	92.2	93.3	93.3
0.75	59.8	62.3	73.2	77.4	78.4	83.3	85.6	87.2	89.5	89.7	90.2	91.1	92.9	93.9	95.1	95.1
0.5	59.8	62.3	73.6	77.9	79.0	84.2	86.7	88.6	91.3	91.6	92.1	93.0	94.9	95.8	97.3	97.3
0.25	59.8	62.3	73.7	78.0	79.1	84.4	86.8	88.9	91.7	91.9	92.4	93.4	95.5	96.6	98.3	98.3
0.15	59.8	62.3	73.7	78.1	79.2	84.5	86.9	89.0	91.9	92.2	92.7	93.6	95.7	97.1	99.6	99.6
0.1	59.8	62.3	73.7	78.1	79.2	84.5	86.9	89.0	91.9	92.2	92.7	93.6	95.7	97.1	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 818

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

75621 ALCONBURY RAF UK

73-87

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1977-1979

CEILING FEET	VISIBILITY: STATUTE MILES OR (HUNDREDS OF METERS)															
	≥10	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
NO CEILING	>16	GF9	GF8	GF6	GF4	GF4	GF3	GF2	GF2	GF1	GF1	GF1	GF1	GF1	GF1	GF1
≥20000		34.5	35.1	38.0	39.1	39.1	39.9	40.1	40.4	40.6	40.6	40.6	40.6	40.6	40.6	40.6
≥18000		41.8	42.6	46.0	47.3	47.3	48.2	48.4	48.7	48.9	48.9	48.9	48.9	48.9	48.9	48.9
≥16000		41.8	42.6	46.0	47.3	47.3	48.2	48.4	48.7	48.9	48.9	48.9	48.9	48.9	48.9	48.9
≥14000		42.0	42.8	46.2	47.5	47.5	48.4	48.7	48.9	49.1	49.1	49.1	49.1	49.1	49.1	49.1
≥12000		42.6	43.4	46.9	48.2	48.2	49.1	49.4	49.6	49.8	49.8	49.8	49.8	49.8	49.8	49.8
≥10000		44.6	45.5	49.2	50.6	50.6	51.6	51.8	52.7	52.3	52.3	52.3	52.3	52.3	52.3	52.3
≥9000		45.4	46.3	50.1	51.6	51.6	52.5	52.7	53.0	53.2	53.2	53.2	53.2	53.2	53.2	53.2
≥8000		49.9	51.7	55.2	56.9	56.9	58.0	58.2	58.7	58.9	58.9	58.9	58.9	58.9	58.9	58.9
≥7000		51.5	51.6	55.8	57.5	57.5	58.6	58.8	59.3	59.5	59.5	59.5	59.5	59.5	59.5	59.5
≥6000		50.5	51.6	55.9	57.6	57.6	58.7	58.9	59.4	59.6	59.6	59.6	59.6	59.6	59.6	59.6
≥5000		52.6	53.7	58.2	60.2	60.2	61.3	61.5	62.0	62.2	62.2	62.2	62.2	62.2	62.2	62.2
≥4500		55.1	56.1	61.0	63.0	63.0	64.1	64.3	64.8	65.0	65.0	65.0	65.0	65.0	65.0	65.0
≥4000		58.7	59.0	64.3	66.3	66.3	67.3	67.6	68.0	68.3	68.3	68.3	68.3	68.3	68.3	68.3
≥3500		61.5	62.5	68.0	70.0	70.0	71.1	71.3	71.8	72.0	72.0	72.0	72.0	72.0	72.0	72.0
≥3000		65.7	66.7	72.7	74.7	74.7	75.8	76.1	76.5	76.8	76.8	76.8	76.8	76.8	76.8	76.8
≥2500		66.9	67.9	74.0	76.0	76.0	77.1	77.4	77.8	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥2000		70.1	71.3	78.1	80.0	80.0	81.2	81.6	82.0	82.3	82.3	82.3	82.3	82.3	82.3	82.3
≥1800		71.7	72.9	79.8	81.7	81.7	82.9	83.3	83.7	84.0	84.0	84.0	84.0	84.0	84.0	84.0
≥1600		73.4	74.6	81.6	83.5	83.5	84.7	85.1	85.4	85.7	85.7	85.7	85.7	85.7	85.7	85.7
≥1400		75.1	76.3	83.3	85.2	85.2	86.4	86.8	87.1	87.4	87.4	87.4	87.4	87.4	87.4	87.4
≥1200		76.8	78.0	85.0	86.9	86.9	88.1	88.5	88.8	89.1	89.1	89.1	89.1	89.1	89.1	89.1
≥1000		78.5	79.7	86.7	88.6	88.6	89.8	90.2	90.5	90.8	90.8	90.8	90.8	90.8	90.8	90.8
≥900		79.1	80.3	87.3	89.2	89.2	90.4	90.8	91.1	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥800		79.7	80.9	87.9	89.8	89.8	91.0	91.4	91.7	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥700		80.3	81.5	88.5	90.4	90.4	91.6	92.0	92.3	92.6	92.6	92.6	92.6	92.6	92.6	92.6
≥600		81.0	82.2	89.2	91.1	91.1	92.3	92.7	93.0	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥500		81.6	82.8	89.8	91.7	91.7	92.9	93.3	93.6	93.9	93.9	93.9	93.9	93.9	93.9	93.9
≥400		82.2	83.4	90.4	92.3	92.3	93.5	93.9	94.2	94.5	94.5	94.5	94.5	94.5	94.5	94.5
≥300		82.8	84.0	91.0	92.9	92.9	94.1	94.5	94.8	95.1	95.1	95.1	95.1	95.1	95.1	95.1
≥200		83.4	84.6	91.6	93.5	93.5	94.7	95.1	95.4	95.7	95.7	95.7	95.7	95.7	95.7	95.7
≥100		84.0	85.2	92.2	94.1	94.1	95.3	95.7	96.0	96.3	96.3	96.3	96.3	96.3	96.3	96.3
≥50		84.6	85.8	92.8	94.7	94.7	95.9	96.3	96.6	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥0		85.2	86.4	93.4	95.3	95.3	96.5	96.9	97.2	97.5	97.5	97.5	97.5	97.5	97.5	97.5

TOTAL NUMBER OF OBSERVATIONS 857

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

125421

ALCONBURY RAF UK

73-87

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

12-0-1400

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
OR (HUNDREDS OF METERS)	≥10	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
≥20000	72.3	33.3	34.9	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
18000	44.2	45.4	47.1	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.4	47.4	47.4	47.4	47.4	47.4
16000	44.5	45.8	47.5	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.7	47.7	47.7	47.7	47.7	47.7
14000	44.6	45.9	47.6	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.8	47.8	47.8	47.8	47.8	47.8
12000	44.6	45.9	47.6	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.8	47.8	47.8	47.8	47.8	47.8
10000	46.5	47.7	49.4	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.7	49.7	49.7	49.7	49.7	49.7
8000	49.5	50.9	52.7	52.9	52.9	52.9	52.9	52.9	52.9	52.9	53.0	53.0	53.0	53.0	53.0	53.0
6000	50.1	51.7	53.3	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.5	53.5	53.5	53.5	53.5	53.5
4000	54.0	55.6	57.6	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.8	57.8	57.8	57.8	57.8	57.8
3000	54.3	55.9	57.9	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.1	58.1	58.1	58.1	58.1	58.1
2000	54.3	55.9	57.9	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.1	58.1	58.1	58.1	58.1	58.1
1000	57.7	59.5	61.6	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.8	61.8	61.8	61.8	61.8	61.8
800	60.8	62.6	64.3	64.9	64.9	64.9	64.9	64.9	64.9	64.9	65.0	65.0	65.0	65.0	65.0	65.0
600	67.2	69.3	71.5	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.9	71.9	71.9	71.9	71.9	71.9
400	74.4	76.5	78.8	79.1	79.1	79.2	79.2	79.2	79.2	79.2	79.3	79.3	79.3	79.3	79.3	79.3
300	79.1	81.2	83.5	83.8	83.8	83.9	83.9	83.9	83.9	83.9	84.0	84.0	84.0	84.0	84.0	84.0
200	82.4	84.6	87.0	87.2	87.2	87.3	87.3	87.3	87.3	87.3	87.4	87.4	87.4	87.4	87.4	87.4
100	85.4	87.5	90.0	90.3	90.3	90.5	90.5	90.5	90.5	90.5	90.7	90.7	90.7	90.7	90.7	90.7
80	86.2	88.3	91.0	91.2	91.2	91.5	91.5	91.5	91.5	91.5	91.8	91.8	91.8	91.8	91.8	91.8
60	88.6	90.7	93.6	94.2	94.2	94.5	94.5	94.5	94.5	94.5	95.0	95.0	95.0	95.0	95.0	95.0
40	90.0	92.3	95.3	95.9	95.9	96.2	96.3	96.6	96.6	96.6	96.7	96.7	96.7	96.7	96.7	96.7
30	90.5	92.9	96.0	96.6	96.6	96.9	97.0	97.3	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.6
20	91.1	93.5	96.6	97.1	97.1	97.5	97.6	97.8	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2
10	91.3	93.9	97.0	97.6	97.6	97.9	98.1	98.3	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6
8	91.4	93.9	97.1	97.7	97.7	98.1	98.3	98.5	98.7	98.9	98.9	98.9	98.9	98.9	98.9	98.9
6	91.5	94.1	97.4	97.9	97.9	98.3	98.7	99.0	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3
4	91.5	94.1	97.4	98.1	98.1	98.4	99.2	99.4	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8
3	91.5	94.1	97.4	98.1	98.1	98.4	99.2	99.4	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8
2	91.5	94.1	97.4	98.1	98.1	98.4	99.2	99.4	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8
1	91.5	94.1	97.4	98.1	98.1	98.4	99.2	99.4	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8
0	91.5	94.1	97.4	98.1	98.1	98.4	99.2	99.4	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8

TOTAL NUMBER OF OBSERVATIONS 874

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR FATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

35621

ALCONBURY RAF UK

73-87

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700

CEILING FEET	VISIBILITY STATUTE MILES																OR (HUNDREDS OF METERS)			
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0.025	≥0.015	≥0.01	≥0.005	≥0.0025	≥0.001
≥10000	33.8	34.7	35.5	35.6	35.6	35.6	35.6	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9
≥8000	44.0	45.0	46.0	46.1	46.1	46.1	46.1	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5
≥6000	44.1	45.1	46.1	46.3	46.3	46.3	46.3	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6
≥4000	44.1	45.1	46.1	46.3	46.3	46.3	46.3	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6
≥2000	44.6	45.6	46.6	46.7	46.7	46.7	46.7	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
≥1000	45.6	46.5	47.8	47.9	47.9	47.9	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2
≥800	51.6	52.6	54.3	54.4	54.4	54.4	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
≥600	53.4	54.3	56.2	56.3	56.3	56.3	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7
≥400	56.0	59.1	61.5	61.6	61.6	61.6	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
≥200	59.6	60.8	63.2	63.3	63.3	63.3	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7
≥100	59.7	60.9	63.3	63.4	63.5	63.5	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8
≥80	63.5	64.8	67.2	67.3	67.3	67.3	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
≥60	69.7	71.0	73.5	73.7	73.7	73.7	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
≥40	75.1	76.3	79.2	79.4	79.5	79.5	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥20	82.7	84.1	87.1	87.4	87.5	87.6	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9
≥10	86.8	88.2	91.5	91.7	91.8	91.9	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥5	88.6	90.0	93.6	93.8	93.9	94.1	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
≥2.5	89.9	91.3	95.0	95.2	95.3	95.6	95.9	95.9	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥1.5	91.4	91.8	95.4	95.7	95.8	96.0	96.4	96.4	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
≥0.75	91.3	92.7	96.5	96.7	96.8	97.2	97.5	97.5	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥0.5	91.7	93.2	97.0	97.2	97.3	97.7	98.0	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥0.25	92.0	93.6	97.3	97.5	97.7	98.0	98.4	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
≥0.15	92.2	93.7	97.5	97.8	97.9	98.2	98.6	98.6	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥0.1	92.4	93.9	97.8	98.0	98.1	98.5	98.8	98.8	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥0.05	92.4	93.9	97.8	98.0	98.2	98.7	99.1	99.1	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥0.025	92.5	94.0	97.9	98.1	98.4	98.8	99.2	99.2	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥0.015	92.7	94.3	98.1	98.4	98.6	99.1	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥0.01	92.7	94.3	98.1	98.4	98.6	99.1	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥0.005	92.7	94.3	98.1	98.4	98.6	99.1	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥0.0025	92.7	94.3	98.1	98.4	98.6	99.1	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥0.001	92.7	94.3	98.1	98.4	98.6	99.1	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 858

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

75621  
STATION

ALCONBURY RAF UK  
STATION NAME

73-87  
YEAR

SEP  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

18.0-20.0  
CLOUD PERCENT

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10 > 16	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .16	≥ .1	≥ .05	≥ .01
NO CEILING	34.3	36.2	39.2	39.4	79.4	39.6	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8	39.8
≥ 20000	43.2	45.4	48.6	48.8	48.8	49.2	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
≥ 18000	42.2	44.4	48.6	48.8	48.8	49.2	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
≥ 16000	43.2	45.4	48.6	48.8	48.8	49.2	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
≥ 14000	43.7	45.9	49.2	49.3	49.3	49.7	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9
≥ 12000	44.4	46.6	49.9	50.0	50.0	50.4	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5
≥ 10000	48.5	50.8	54.5	54.6	54.6	55.0	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2
≥ 9000	50.4	52.7	56.5	56.7	56.7	57.1	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
≥ 8000	55.2	57.5	62.1	62.3	62.3	62.8	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9
≥ 7000	56.5	58.9	63.5	63.8	63.8	64.3	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4
≥ 6000	57.4	59.7	64.3	64.6	64.6	65.1	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
≥ 5000	59.5	62.0	67.2	67.4	67.4	68.0	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
≥ 4500	64.5	67.3	73.3	73.6	73.6	74.1	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
≥ 4000	69.9	72.5	79.0	79.3	79.3	79.8	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 3500	75.1	77.8	85.4	85.7	85.7	86.4	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 3000	78.3	81.3	89.2	89.5	89.5	90.0	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
≥ 2500	83.0	83.1	91.7	92.0	92.0	92.8	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
≥ 2000	81.7	85.1	93.7	94.1	94.1	95.0	95.2	95.2	95.2	95.2	95.4	95.4	95.4	95.4	95.4	95.4
≥ 1800	81.9	85.3	93.9	94.3	94.3	95.4	95.6	95.6	95.6	95.6	95.8	95.8	95.8	95.8	95.8	95.8
≥ 1600	82.2	85.6	94.3	94.7	94.7	95.9	96.2	96.5	96.5	96.5	96.6	96.6	96.6	96.6	96.6	96.6
≥ 1400	83.1	86.6	95.6	96.0	96.0	97.4	97.8	98.1	98.1	98.1	98.2	98.2	98.2	98.2	98.2	98.2
≥ 1200	83.1	86.6	95.8	96.2	96.2	97.5	98.1	98.4	98.4	98.4	98.5	98.5	98.5	98.5	98.5	98.5
≥ 1000	83.2	86.8	95.9	96.3	96.3	97.7	98.2	98.6	98.6	98.6	98.8	98.9	98.9	98.9	98.9	98.9
≥ 900	83.4	87.2	96.6	97.0	97.0	98.4	98.9	99.3	99.3	99.3	99.5	99.6	99.6	99.6	99.6	99.6
≥ 800	83.5	87.3	96.7	97.1	97.1	98.6	99.2	99.6	99.6	99.6	99.7	99.9	99.9	99.9	99.9	99.9
≥ 700	83.5	87.3	96.7	97.1	97.1	98.6	99.2	99.6	99.6	99.6	99.7	99.9	99.9	99.9	99.9	99.9
≥ 600	83.5	87.3	96.7	97.1	97.1	98.6	99.2	99.6	99.6	99.6	99.7	99.9	99.9	99.9	99.9	99.9
≥ 500	83.5	87.3	96.7	97.1	97.1	98.8	99.3	99.7	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0
≥ 400	83.5	87.3	96.7	97.1	97.1	98.8	99.3	99.7	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0
≥ 300	83.5	87.3	96.7	97.1	97.1	98.8	99.3	99.7	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0
≥ 200	83.5	87.3	96.7	97.1	97.1	98.8	99.3	99.7	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0
≥ 100	83.5	87.3	96.7	97.1	97.1	98.8	99.3	99.7	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0
≥ 0	83.5	87.3	96.7	97.1	97.1	98.8	99.3	99.7	99.7	99.7	99.9	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 139

USAF ETAC 0-14.5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AF WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

5521 ALCONBURY RAF UK

73-82

SFP

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

21.0-23.00  
HOURS

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0.025	≥0.01
≥20000	40.2	47.5	48.7	49.6	49.8	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9
18000	45.8	48.2	53.8	55.4	55.6	55.9	55.9	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
16000	45.8	48.2	53.8	55.4	55.6	55.9	55.9	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
14000	45.6	48.2	53.8	55.4	55.6	55.9	55.9	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
12000	46.3	48.7	54.3	55.9	56.0	56.4	56.4	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0
10000	49.6	52.0	58.1	59.8	60.0	60.3	60.3	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9
9000	50.7	53.1	59.2	60.9	61.1	61.4	61.4	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0
8000	53.8	56.2	62.8	64.5	64.7	65.1	65.1	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8
7000	54.3	56.7	63.4	65.1	65.3	65.8	65.8	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4
6000	54.9	57.3	65.0	66.7	66.9	67.3	67.3	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
5000	56.7	59.2	67.3	69.1	69.2	69.7	69.7	70.3	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5
4500	60.4	63.1	71.4	73.2	73.3	73.8	73.8	74.4	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
4000	64.8	68.1	77.2	79.0	79.1	79.6	79.6	80.2	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
3500	68.3	71.7	81.9	83.8	84.0	84.5	84.5	85.1	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
3000	71.4	75.5	87.0	89.2	89.3	89.8	89.8	90.4	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
2500	73.6	78.0	89.6	91.8	92.0	92.5	92.5	93.1	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
2000	73.8	78.2	89.6	92.0	92.2	92.6	92.6	93.2	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
1500	75.4	80.1	91.8	94.7	94.2	94.7	94.7	95.3	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
1000	75.8	80.7	92.8	95.7	95.1	95.6	95.6	96.2	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
900	76.5	81.3	93.7	95.9	96.1	96.7	96.7	97.3	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
800	77.1	81.9	94.3	96.7	96.9	97.5	97.5	98.1	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
700	77.2	82.1	94.5	96.9	97.0	97.6	97.6	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
600	77.4	82.3	94.7	97.2	97.3	98.0	98.0	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
500	77.4	82.3	94.7	97.3	97.5	98.1	98.1	98.4	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2
400	77.7	82.6	95.0	97.8	98.0	98.6	98.6	99.5	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
300	78.0	82.9	95.3	98.1	98.3	98.9	98.9	99.2	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
200	78.0	82.9	95.3	98.1	98.3	98.9	98.9	99.2	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
100	78.0	82.9	95.3	98.1	98.3	98.9	98.9	99.2	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	78.0	82.9	95.3	98.1	98.3	98.9	98.9	99.2	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 637



GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

35621  
STATION

ALCONBURY RAF UK  
STATION NAME

73-87  
YEAR

SEP  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL  
HOURS

CEILING FEET	VISIBILITY - STATUTE MILES										OR (HUNDREDS OF METERS)									
	210	20	25	24	23	22	21	20	19	18	21	20	19	18	17	16	15	14	13	12
>16	32.5	33.8	37.1	38.7	38.1	39.7	39.5	39.7	40.1	40.2	40.3	40.4	40.7	40.8	41.1					
15000	39.5	41.1	44.7	45.7	45.9	46.9	47.4	47.6	48.0	48.1	48.2	48.4	48.6	48.8	49.1					
14000	39.6	41.2	44.8	45.8	46.0	47.0	47.5	47.7	48.1	48.2	48.3	48.5	48.7	48.9	49.2					
13000	39.6	41.2	44.8	45.8	46.0	47.0	47.5	47.7	48.1	48.3	48.3	48.5	48.8	48.9	49.2					
12000	39.8	41.4	45.0	46.0	46.2	47.2	47.7	47.9	48.3	48.5	48.5	48.7	49.0	49.1	49.4					
11000	41.5	42.7	45.7	46.8	46.9	47.9	48.4	48.7	49.1	49.2	49.3	49.5	49.7	49.9	50.2					
10000	43.4	45.1	49.0	50.1	50.3	51.3	51.8	52.1	52.5	52.7	52.8	53.0	53.2	53.4	53.6					
9000	44.5	45.2	51.2	51.3	51.5	52.5	53.1	53.4	53.8	54.0	54.1	54.3	54.5	54.7	54.9					
8000	48.9	50.7	55.1	56.3	56.5	57.6	58.2	58.6	59.1	59.3	59.4	59.5	59.8	60.0	60.2					
7000	49.8	51.6	56.0	57.2	57.5	58.6	59.2	59.4	60.1	60.3	60.4	60.6	60.8	61.0	61.2					
6000	51.1	51.9	56.5	57.7	58.0	59.2	59.8	60.2	60.7	60.9	61.0	61.2	61.4	61.6	61.8					
5000	52.3	54.3	59.3	60.6	60.8	62.1	62.9	63.7	63.9	64.0	64.2	64.5	64.7	64.9	65.2					
4000	55.9	58.7	63.3	64.6	64.8	66.2	66.9	67.3	67.8	68.0	68.1	68.3	68.6	68.7	69.0					
3000	60.4	62.7	68.4	69.8	70.0	71.5	72.2	72.6	73.1	73.3	73.4	73.6	73.9	74.1	74.3					
2000	65.0	67.4	73.7	75.0	75.3	76.8	77.5	77.9	78.4	78.6	78.7	78.9	79.2	79.4	79.6					
1000	68.2	71.7	77.4	78.8	79.1	80.6	81.4	81.8	82.4	82.5	82.6	82.9	83.2	83.3	83.6					
500	69.8	72.4	79.4	80.9	81.1	82.7	83.5	83.9	84.4	84.6	84.7	84.9	85.2	85.4	85.7					
0	72.3	75.7	82.4	83.9	84.2	85.9	86.7	87.1	87.7	87.9	88.0	88.3	88.6	88.8	89.0					
10000	72.7	75.5	82.9	84.4	84.7	86.5	87.3	87.7	88.3	88.5	88.6	88.9	89.2	89.4	89.6					
9000	74.6	77.4	85.2	86.8	87.1	88.8	89.8	90.7	90.9	91.1	91.2	91.5	91.8	92.0	92.2					
8000	75.8	78.7	86.6	88.3	88.5	90.4	91.4	91.9	92.5	92.8	92.9	93.1	93.4	93.6	93.9					
7000	76.6	79.6	87.7	89.4	89.6	91.6	92.6	93.1	93.8	94.1	94.2	94.4	94.7	94.9	95.2					
6000	77.1	80.7	88.2	89.9	90.2	92.2	93.2	93.7	94.5	94.7	94.8	95.1	95.4	95.6	95.8					
5000	77.5	80.7	89.0	90.7	91.0	93.0	94.1	94.6	95.4	95.6	95.7	96.0	96.3	96.5	96.7					
4000	77.8	80.9	89.3	91.1	91.4	93.5	94.6	95.1	96.0	96.2	96.3	96.6	96.9	97.1	97.3					
3000	77.8	81.0	89.5	91.3	91.6	93.8	95.0	95.6	96.4	96.7	96.8	97.1	97.4	97.6	97.9					
2000	77.9	81.1	89.7	91.6	92.0	94.2	95.5	96.1	97.0	97.3	97.4	97.7	98.0	98.2	98.5					
1000	78.0	81.2	90.0	92.0	92.3	94.6	95.9	96.6	97.6	97.8	98.0	98.3	98.6	98.9	99.2					
500	78.0	81.2	90.0	92.0	92.3	94.6	96.1	96.8	97.8	98.0	98.1	98.4	98.8	99.0	99.4					
0	78.0	81.2	90.0	92.0	92.4	94.6	96.1	96.8	97.8	98.0	98.2	98.5	98.9	99.3	99.9					
	78.0	81.2	90.0	92.0	92.4	94.6	96.1	96.8	97.8	98.0	98.2	98.5	98.9	99.3	100.0					

TOTAL NUMBER OF OBSERVATIONS 6102

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

35521 ALCONSBURY RAF UK

73-87

067

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

000-0000

CEILING FEET	VISIBILITY: STATUTE MILES															
	210	20	25	24	23	22	27	21	21	21	21	21	21	2516	21	20
OR (HUNDREDS OF METERS)	210	20	25	24	23	22	27	21	21	21	21	21	21	2516	21	20
>16	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9
16	30.3	33.2	36.6	38.0	38.9	41.1	42.6	44.2	44.6	44.7	45.1	45.3	45.5	45.8	46.4	47.1
15	30.3	33.2	36.6	38.0	38.9	41.1	42.6	44.2	44.6	44.7	45.1	45.3	45.5	45.8	46.4	47.1
14	30.3	33.2	36.6	38.0	38.9	41.1	42.6	44.2	44.6	44.7	45.1	45.3	45.5	45.8	46.4	47.1
13	30.3	33.2	36.6	38.0	38.9	41.1	42.6	44.2	44.6	44.7	45.1	45.3	45.5	45.8	46.4	47.1
12	30.3	33.2	36.6	38.0	38.9	41.1	42.6	44.2	44.6	44.7	45.1	45.3	45.5	45.8	46.4	47.1
11	30.3	33.2	36.6	38.0	38.9	41.1	42.6	44.2	44.6	44.7	45.1	45.3	45.5	45.8	46.4	47.1
10	30.3	33.2	36.6	38.0	38.9	41.1	42.6	44.2	44.6	44.7	45.1	45.3	45.5	45.8	46.4	47.1
9	30.3	33.2	36.6	38.0	38.9	41.1	42.6	44.2	44.6	44.7	45.1	45.3	45.5	45.8	46.4	47.1
8	30.3	33.2	36.6	38.0	38.9	41.1	42.6	44.2	44.6	44.7	45.1	45.3	45.5	45.8	46.4	47.1
7	30.3	33.2	36.6	38.0	38.9	41.1	42.6	44.2	44.6	44.7	45.1	45.3	45.5	45.8	46.4	47.1
6	30.3	33.2	36.6	38.0	38.9	41.1	42.6	44.2	44.6	44.7	45.1	45.3	45.5	45.8	46.4	47.1
5	30.3	33.2	36.6	38.0	38.9	41.1	42.6	44.2	44.6	44.7	45.1	45.3	45.5	45.8	46.4	47.1
4	30.3	33.2	36.6	38.0	38.9	41.1	42.6	44.2	44.6	44.7	45.1	45.3	45.5	45.8	46.4	47.1
3	30.3	33.2	36.6	38.0	38.9	41.1	42.6	44.2	44.6	44.7	45.1	45.3	45.5	45.8	46.4	47.1
2	30.3	33.2	36.6	38.0	38.9	41.1	42.6	44.2	44.6	44.7	45.1	45.3	45.5	45.8	46.4	47.1
1	30.3	33.2	36.6	38.0	38.9	41.1	42.6	44.2	44.6	44.7	45.1	45.3	45.5	45.8	46.4	47.1
0	30.3	33.2	36.6	38.0	38.9	41.1	42.6	44.2	44.6	44.7	45.1	45.3	45.5	45.8	46.4	47.1

TOTAL NUMBER OF OBSERVATIONS 552

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

15521

ALCONBURY RAF UK

73-62

OCT

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

300-5500

CEILING FEET	VISIBILITY STATUTE MILES															
	>10	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
OR (HUNDREDS OF METERS)	>16	GE9	GE8	GE6	GE4	GE3	GE2	GE1	GE0	GE0	GE0	GE0	GE0	GE0	GE0	GE0
20000	27.7	29.5	33.2	33.3	36.6	37.8	38.1	38.8	38.8	39.3	40.1	40.6	41.0	42.4	46.4	46.4
18000	30.3	30.0	36.7	36.9	37.6	40.4	41.9	42.1	42.9	42.9	43.4	44.1	44.6	45.0	46.4	46.4
16000	30.3	30.0	36.7	36.9	37.6	40.4	41.9	42.1	42.9	42.9	43.4	44.1	44.6	45.0	46.4	46.4
14000	30.3	30.0	36.7	36.9	37.6	40.4	41.9	42.1	42.9	42.9	43.4	44.1	44.6	45.0	46.4	46.4
12000	30.3	30.0	36.7	36.9	37.6	40.4	41.9	42.1	42.9	42.9	43.4	44.1	44.6	45.0	46.4	46.4
10000	30.3	30.0	36.7	36.9	37.6	40.4	41.9	42.1	42.9	42.9	43.4	44.1	44.6	45.0	46.4	46.4
8000	30.3	30.0	36.7	36.9	37.6	40.4	41.9	42.1	42.9	42.9	43.4	44.1	44.6	45.0	46.4	46.4
6000	30.3	30.0	36.7	36.9	37.6	40.4	41.9	42.1	42.9	42.9	43.4	44.1	44.6	45.0	46.4	46.4
4000	30.3	30.0	36.7	36.9	37.6	40.4	41.9	42.1	42.9	42.9	43.4	44.1	44.6	45.0	46.4	46.4
2000	30.3	30.0	36.7	36.9	37.6	40.4	41.9	42.1	42.9	42.9	43.4	44.1	44.6	45.0	46.4	46.4
1000	30.3	30.0	36.7	36.9	37.6	40.4	41.9	42.1	42.9	42.9	43.4	44.1	44.6	45.0	46.4	46.4
500	30.3	30.0	36.7	36.9	37.6	40.4	41.9	42.1	42.9	42.9	43.4	44.1	44.6	45.0	46.4	46.4
200	30.3	30.0	36.7	36.9	37.6	40.4	41.9	42.1	42.9	42.9	43.4	44.1	44.6	45.0	46.4	46.4
100	30.3	30.0	36.7	36.9	37.6	40.4	41.9	42.1	42.9	42.9	43.4	44.1	44.6	45.0	46.4	46.4
50	30.3	30.0	36.7	36.9	37.6	40.4	41.9	42.1	42.9	42.9	43.4	44.1	44.6	45.0	46.4	46.4
20	30.3	30.0	36.7	36.9	37.6	40.4	41.9	42.1	42.9	42.9	43.4	44.1	44.6	45.0	46.4	46.4
10	30.3	30.0	36.7	36.9	37.6	40.4	41.9	42.1	42.9	42.9	43.4	44.1	44.6	45.0	46.4	46.4
5	30.3	30.0	36.7	36.9	37.6	40.4	41.9	42.1	42.9	42.9	43.4	44.1	44.6	45.0	46.4	46.4
2	30.3	30.0	36.7	36.9	37.6	40.4	41.9	42.1	42.9	42.9	43.4	44.1	44.6	45.0	46.4	46.4
1	30.3	30.0	36.7	36.9	37.6	40.4	41.9	42.1	42.9	42.9	43.4	44.1	44.6	45.0	46.4	46.4
0	30.3	30.0	36.7	36.9	37.6	40.4	41.9	42.1	42.9	42.9	43.4	44.1	44.6	45.0	46.4	46.4

TOTAL NUMBER OF OBSERVATIONS 703

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

15621 ALCONBURY RAF UK

73-82

001

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1600-1800

CEILING FEET	VISIBILITY STATUTE MILES OR (HUNDREDS OF METERS)															
	210	20	25	24	23	22	21	20	19	18	17	16	15	14	13	12
20000	17.8	18.9	22.1	24.1	24.2	25.8	26.3	27.2	27.7	27.8	27.8	28.2	28.3	29.3	30.5	
18000	22.0	23.9	27.6	29.9	30.2	32.3	33.7	34.7	34.9	35.7	35.1	35.5	36.3	37.1	39.2	
16000	22.1	24.0	27.7	30.0	30.3	32.4	33.3	34.2	35.1	35.2	35.4	35.7	36.6	37.3	39.4	
14000	22.1	24.0	27.7	30.0	30.3	32.4	33.3	34.2	35.1	35.2	35.4	35.7	36.6	37.3	39.4	
12000	22.2	24.1	27.8	30.3	30.5	32.6	33.5	34.5	35.4	35.5	35.7	36.1	37.0	37.7	39.8	
10000	23.5	25.5	29.2	31.6	31.9	34.7	35.0	36.7	37.0	37.1	37.3	37.7	38.6	39.3	41.5	
8000	24.2	26.2	30.2	32.6	32.9	35.1	36.1	37.1	38.1	38.2	38.4	38.8	39.7	40.4	42.6	
6000	28.8	31.1	35.5	38.3	38.8	41.0	42.3	43.3	44.3	44.4	44.6	45.7	45.9	46.6	48.8	
4000	31.0	32.4	36.7	39.7	40.2	42.4	43.6	44.7	45.7	45.9	46.1	46.6	47.6	48.3	50.6	
2000	37.3	37.6	37.1	40.0	40.5	42.8	44.0	45.1	46.1	46.2	46.5	47.0	48.0	48.7	50.9	
1000	31.9	34.4	39.3	42.4	42.9	45.1	46.5	47.8	48.8	48.9	49.3	49.8	50.8	51.5	53.8	
500	33.5	36.2	41.3	44.5	45.0	47.7	49.1	50.8	51.8	51.9	52.3	52.8	53.8	54.5	56.7	
200	31.6	39.4	45.2	48.7	49.3	52.3	53.9	55.6	56.7	57.0	57.4	57.8	59.7	59.7	61.9	
100	38.9	41.8	48.3	51.8	52.4	55.4	57.1	58.8	60.1	60.3	60.7	61.2	62.3	63.7	65.3	
50	41.3	43.3	50.4	54.0	54.6	58.1	59.8	61.6	62.9	63.2	63.5	64.0	65.3	66.0	68.4	
25	42.2	45.4	52.9	57.7	57.7	61.3	63.3	65.7	66.4	66.6	67.7	67.6	68.9	69.6	71.9	
12.5	45.7	48.9	57.1	61.6	62.5	67.1	69.2	71.1	72.4	72.7	73.2	73.8	75.7	75.9	78.1	
6.25	47.6	50.8	59.3	64.2	65.1	69.7	72.3	74.3	75.6	76.7	76.5	77.1	78.5	79.2	81.6	
3.125	48.3	51.7	60.7	66.1	67.1	71.9	74.7	76.6	78.1	78.5	79.0	79.6	81.0	81.7	84.1	
1.5625	46.9	52.4	61.6	67.2	68.2	73.7	76.4	78.4	80.1	80.5	81.0	81.6	83.2	83.9	86.4	
0.78125	48.9	52.4	61.6	67.2	68.2	73.7	76.5	78.5	80.6	81.1	81.6	82.2	83.8	84.5	87.0	
0.390625	49.1	52.5	61.8	67.5	68.5	73.9	77.0	79.7	81.3	81.8	82.3	83.1	84.7	85.4	87.9	
0.1953125	49.2	52.7	62.2	68.0	69.0	74.4	77.5	79.6	82.1	82.6	83.1	83.8	85.4	86.2	88.6	
0.09765625	49.2	52.7	62.4	68.4	69.3	75.7	78.2	80.3	83.1	83.6	84.1	84.8	86.4	87.1	89.7	
0.048828125	49.2	52.7	62.5	68.6	69.6	75.8	79.1	81.2	84.2	84.7	85.2	85.9	87.6	88.4	91.0	
0.0244140625	49.2	52.7	62.8	68.9	70.0	76.1	79.6	81.7	85.0	85.5	86.2	87.7	88.8	89.5	92.1	
0.01220703125	49.2	52.7	62.8	68.9	70.0	76.1	80.1	82.7	86.7	87.1	88.3	89.5	92.1	93.4	96.0	
0.006103515625	49.2	52.7	62.8	68.9	70.0	76.1	80.1	82.7	86.7	87.1	88.4	89.6	92.1	93.6	96.6	

TOTAL NUMBER OF OBSERVATIONS 009

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

175621 ALCONBURY RAF UK

73-87

OCT

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

900-1100  
HOURS

CEILING FEET	VISIBILITY STATUTE MILES OR (HUNDREDS OF METERS)															
	≥10 >16	≥6 GE9	≥5 GF8	≥4 GE6	≥3 GF4	≥2 GF4	≥2 GF3	≥1 GF2	≥1 GF2	≥1 GF1	≥1 GF1	≥1 GF1	≥1 GF0	≥1 GF0	≥1 GF0	≥1 GF0
20000		23.9	25.1	27.7	29.6	30.6	30.6	31.5	31.8	32.1	32.1	32.1	32.1	32.1	32.1	32.3
18000		31.5	32.9	36.2	38.8	39.3	40.2	41.5	41.7	42.7	42.7	42.7	42.7	42.7	42.8	43.2
16000		31.5	32.9	36.2	38.8	39.3	40.2	41.5	41.7	42.7	42.7	42.7	42.7	42.7	42.8	43.2
14000		31.5	32.9	36.2	38.8	39.3	40.2	41.5	41.7	42.7	42.7	42.7	42.7	42.7	42.8	43.2
12000		31.5	32.9	36.2	38.8	39.3	40.2	41.5	41.7	42.7	42.7	42.7	42.7	42.7	42.8	43.2
10000		31.5	32.9	36.2	38.8	39.3	40.2	41.5	41.7	42.7	42.7	42.7	42.7	42.7	42.8	43.2
8000		31.5	32.9	36.2	38.8	39.3	40.2	41.5	41.7	42.7	42.7	42.7	42.7	42.7	42.8	43.2
6000		31.5	32.9	36.2	38.8	39.3	40.2	41.5	41.7	42.7	42.7	42.7	42.7	42.7	42.8	43.2
4000		31.5	32.9	36.2	38.8	39.3	40.2	41.5	41.7	42.7	42.7	42.7	42.7	42.7	42.8	43.2
2000		31.5	32.9	36.2	38.8	39.3	40.2	41.5	41.7	42.7	42.7	42.7	42.7	42.7	42.8	43.2
1000		31.5	32.9	36.2	38.8	39.3	40.2	41.5	41.7	42.7	42.7	42.7	42.7	42.7	42.8	43.2
800		31.5	32.9	36.2	38.8	39.3	40.2	41.5	41.7	42.7	42.7	42.7	42.7	42.7	42.8	43.2
600		31.5	32.9	36.2	38.8	39.3	40.2	41.5	41.7	42.7	42.7	42.7	42.7	42.7	42.8	43.2
400		31.5	32.9	36.2	38.8	39.3	40.2	41.5	41.7	42.7	42.7	42.7	42.7	42.7	42.8	43.2
200		31.5	32.9	36.2	38.8	39.3	40.2	41.5	41.7	42.7	42.7	42.7	42.7	42.7	42.8	43.2
100		31.5	32.9	36.2	38.8	39.3	40.2	41.5	41.7	42.7	42.7	42.7	42.7	42.7	42.8	43.2
80		31.5	32.9	36.2	38.8	39.3	40.2	41.5	41.7	42.7	42.7	42.7	42.7	42.7	42.8	43.2
60		31.5	32.9	36.2	38.8	39.3	40.2	41.5	41.7	42.7	42.7	42.7	42.7	42.7	42.8	43.2
40		31.5	32.9	36.2	38.8	39.3	40.2	41.5	41.7	42.7	42.7	42.7	42.7	42.7	42.8	43.2
20		31.5	32.9	36.2	38.8	39.3	40.2	41.5	41.7	42.7	42.7	42.7	42.7	42.7	42.8	43.2
10		31.5	32.9	36.2	38.8	39.3	40.2	41.5	41.7	42.7	42.7	42.7	42.7	42.7	42.8	43.2
8		31.5	32.9	36.2	38.8	39.3	40.2	41.5	41.7	42.7	42.7	42.7	42.7	42.7	42.8	43.2
6		31.5	32.9	36.2	38.8	39.3	40.2	41.5	41.7	42.7	42.7	42.7	42.7	42.7	42.8	43.2
4		31.5	32.9	36.2	38.8	39.3	40.2	41.5	41.7	42.7	42.7	42.7	42.7	42.7	42.8	43.2
2		31.5	32.9	36.2	38.8	39.3	40.2	41.5	41.7	42.7	42.7	42.7	42.7	42.7	42.8	43.2
1		31.5	32.9	36.2	38.8	39.3	40.2	41.5	41.7	42.7	42.7	42.7	42.7	42.7	42.8	43.2

TOTAL NUMBER OF OBSERVATIONS 834

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

35621 ALCONBURY RAF UK

73-82

ACT

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400

CEILING FEET	VISIBILITY STATUTE MILES															
	210	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
>16	GF9	GF8	GF6	GF4	GF4	GF4	GF3	GF2	GF2	GF1	GF1	GF1	GF1	GF1	GF1	GF1
20000	24.7	25.6	27.6	28.3	28.6	29.1	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5
18000	35.2	36.5	38.8	39.6	39.9	40.7	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0
16000	35.5	36.8	39.2	40.0	40.2	41.0	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4
14000	35.5	36.8	39.2	40.0	40.2	41.0	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4
12000	35.5	36.8	39.2	40.0	40.2	41.0	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4
10000	36.0	37.3	39.9	40.7	40.9	41.7	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1
8000	39.5	41.8	43.5	44.4	44.6	45.7	46.0	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2
6000	41.6	42.0	44.5	45.8	46.0	47.2	47.6	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
4000	47.7	49.3	52.6	53.8	54.1	55.4	55.8	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9
2000	48.7	50.3	53.7	55.0	55.2	56.5	57.0	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
1000	49.1	50.7	54.1	55.4	55.6	56.9	57.3	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5
500	51.4	53.0	56.5	57.8	58.0	59.3	59.8	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9
250	54.0	55.7	59.9	61.2	61.4	62.7	63.2	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
100	58.4	60.3	64.6	66.0	66.2	67.6	68.2	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
50	61.9	64.2	68.5	69.9	70.2	71.7	72.3	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5
25	66.6	69.1	73.7	75.1	75.3	76.9	77.5	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
10	69.0	71.6	76.1	77.5	77.7	79.4	80.0	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2
5	72.4	75.5	80.9	83.0	83.2	85.1	85.7	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9
2	73.1	76.2	81.6	83.7	83.9	85.8	86.4	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6
1	75.4	78.6	84.7	87.2	87.5	89.7	90.3	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
0.5	76.7	80.2	86.6	89.4	89.7	92.1	92.7	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
0.25	77.0	80.5	87.5	90.3	90.7	93.0	93.6	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
0.1	77.3	80.8	87.8	90.6	90.9	93.2	93.8	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
0.05	77.5	81.0	88.0	91.4	91.7	94.1	94.8	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
0.025	78.0	81.5	89.0	92.0	92.3	94.9	95.6	95.8	96.2	96.3	96.3	96.3	96.3	96.3	96.3	96.3
0.01	78.1	81.6	89.3	92.4	92.6	95.3	96.0	96.9	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3
0.005	78.2	81.7	89.5	92.7	93.0	95.7	96.4	97.0	97.6	98.1	98.3	98.4	98.4	98.4	98.4	98.4
0.0025	78.2	81.7	89.5	92.7	93.0	95.7	96.4	97.0	97.6	98.1	98.3	98.4	98.4	98.4	98.4	98.4
0.001	78.2	81.7	89.5	92.7	93.0	95.7	96.4	97.0	97.6	98.1	98.3	98.4	98.4	98.4	98.4	98.4
0.0005	78.2	81.7	89.5	92.7	93.0	95.7	96.4	97.0	97.6	98.1	98.3	98.4	98.4	98.4	98.4	98.4
0.00025	78.2	81.7	89.5	92.7	93.0	95.7	96.4	97.0	97.6	98.1	98.3	98.4	98.4	98.4	98.4	98.4
0.0001	78.2	81.7	89.5	92.7	93.0	95.7	96.4	97.0	97.6	98.1	98.3	98.4	98.4	98.4	98.4	98.4

TOTAL NUMBER OF OBSERVATIONS 858

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

35521

ALCONBURY RAF UK

73-87

067

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700  
HOURS

CEILING FEET	VISIBILITY STATUTE MILES OR (HUNDREDS OF METERS)															
	≥10 >16	≥6 GF90	≥5 GF80	≥4 GF60	≥3 GF48	≥2.5 GF40	≥2 GF32	≥1.5 GF24	≥1 GF20	≥0.75 GF16	≥0.5 GF12	≥0.25 GF10	≥0.15 GF8	≥0.1 GF6	≥0.05 GF3	≥0.01 GF0
≥20000	23.4	24.5	27.0	27.7	27.7	29.3	28.8	28.9	28.9	28.9	29.0	29.0	29.0	29.0	29.0	29.0
18000	34.2	36.0	39.6	40.5	40.5	41.2	41.8	42.0	42.0	42.0	42.0	42.1	42.1	42.1	42.1	42.1
16000	34.5	36.4	40.0	40.8	40.8	41.5	42.1	42.4	42.4	42.4	42.4	42.5	42.5	42.5	42.5	42.5
14000	34.6	36.4	40.0	40.8	40.8	41.5	42.1	42.4	42.4	42.4	42.4	42.5	42.5	42.5	42.5	42.5
12000	34.7	36.5	40.1	40.9	40.9	41.6	42.2	42.5	42.5	42.5	42.5	42.6	42.6	42.6	42.6	42.6
10000	35.6	37.6	41.2	42.0	42.0	42.7	43.4	43.7	43.7	43.7	43.7	43.8	43.8	43.8	43.8	43.8
9000	38.3	40.3	44.0	44.9	44.9	45.8	46.5	46.8	46.9	46.9	46.9	47.0	47.0	47.0	47.0	47.0
8000	39.0	41.1	45.1	45.9	45.9	46.9	47.6	47.9	48.0	48.0	48.0	48.1	48.1	48.1	48.1	48.1
7000	44.4	46.8	51.1	51.9	51.9	53.2	53.9	54.2	54.3	54.3	54.4	54.4	54.4	54.4	54.4	54.4
6000	45.7	48.1	52.4	53.3	53.3	54.7	55.4	55.6	55.7	55.7	55.8	55.8	55.8	55.8	55.8	55.8
5000	46.1	48.4	52.7	53.7	53.7	55.0	55.7	56.0	56.1	56.1	56.2	56.2	56.2	56.2	56.2	56.2
4500	49.8	52.3	56.7	57.6	57.6	58.9	59.7	59.9	60.0	60.0	60.1	60.1	60.1	60.1	60.1	60.1
4000	53.5	56.1	60.7	61.8	61.8	63.1	63.8	64.1	64.2	64.2	64.3	64.3	64.3	64.3	64.3	64.3
3500	59.3	62.3	67.1	68.1	68.1	69.7	70.4	70.8	70.9	70.9	71.0	71.0	71.0	71.0	71.0	71.0
3000	63.7	67.1	72.2	73.4	73.4	74.9	75.7	76.0	76.1	76.1	76.3	76.3	76.3	76.3	76.3	76.3
2500	67.4	71.1	76.4	77.6	77.6	79.4	80.1	80.4	80.5	80.5	80.7	80.7	80.7	80.7	80.7	80.7
2000	69.2	73.2	79.0	80.2	80.2	82.1	82.8	83.2	83.3	83.3	83.4	83.4	83.4	83.4	83.4	83.4
1800	73.2	79.3	84.8	86.2	86.3	88.2	89.3	89.6	89.7	89.7	89.9	89.9	89.9	89.9	89.9	89.9
1600	73.6	79.9	85.9	87.4	87.5	89.4	90.6	90.9	91.1	91.1	91.2	91.2	91.2	91.2	91.2	91.2
1400	74.6	80.3	87.8	89.5	89.6	92.0	93.2	93.6	93.7	93.7	93.8	93.8	93.8	93.8	93.8	93.8
1200	76.3	82.0	90.0	91.8	91.9	94.3	95.5	95.8	95.9	95.9	96.1	96.1	96.1	96.1	96.1	96.1
1000	76.6	82.3	90.5	92.2	92.4	94.9	96.1	96.4	96.7	96.7	96.8	96.8	96.8	96.8	96.8	96.8
900	77.0	82.8	90.9	92.7	92.8	95.3	96.5	96.9	97.1	97.1	97.3	97.3	97.3	97.3	97.3	97.3
800	77.1	82.9	91.1	93.1	93.2	95.9	97.1	97.5	97.7	97.7	97.9	97.9	97.9	97.9	97.9	97.9
700	77.2	83.1	91.2	93.6	93.7	96.3	97.6	98.0	98.6	98.6	98.7	98.7	98.7	98.7	98.7	98.7
600	77.3	83.2	91.4	93.8	93.9	96.5	97.9	98.3	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.0
500	77.3	83.2	91.4	93.9	94.0	96.7	98.0	98.4	99.0	99.0	99.2	99.2	99.2	99.2	99.2	99.2
400	77.3	83.2	91.5	94.3	94.4	97.0	98.3	98.8	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5
300	77.3	83.2	91.5	94.3	94.4	97.0	98.3	98.8	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5
200	77.3	83.2	91.5	94.3	94.4	97.0	98.3	98.8	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5
100	77.3	83.2	91.5	94.3	94.4	97.0	98.3	98.8	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5
0	77.3	83.2	91.5	94.3	94.4	97.0	98.3	98.8	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5

TOTAL NUMBER OF OBSERVATIONS 838

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIP WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

75561

ALCONBURY RAF UK

73-87

OCT

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1800-2400  
FOUR 15

CEILING FEET	VISIBILITY: STATUTE MILES																OR (HUNDREDS OF METERS)														
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.1	≥0.05	≥0.025	≥0.01	≥0.005	≥0.0025	≥0.001	≥0.0005	≥0.00025	≥0.0001	≥0.00005	≥0.000025	≥0.00001	≥0.000005	≥0.0000025	≥0.000001	≥0.0000005	≥0.00000025	≥0.0000001	
NO CEILING	70.0	31.4	34.2	35.6	35.9	36.4	37.1	37.5	37.5	37.5	37.5	37.7	37.7	37.7	37.8	38.3															
≥20000	34.5	36.8	40.4	42.0	42.3	43.0	43.8	44.5	44.5	44.5	44.6	44.6	44.6	44.7	44.7	44.9	45.3														
≥18000	34.7	37.0	40.5	42.2	42.4	43.1	43.9	44.6	44.6	44.6	44.6	44.7	44.7	44.7	44.9	45.4															
≥16000	34.7	37.0	40.5	42.2	42.4	43.1	43.9	44.6	44.6	44.6	44.6	44.7	44.7	44.7	44.9	45.4															
≥14000	34.5	37.1	40.7	42.3	42.6	43.2	44.1	44.7	44.7	44.7	44.7	44.9	44.9	44.9	45.0	45.6															
≥12000	35.3	37.7	41.2	42.8	43.1	43.8	44.6	45.3	45.3	45.3	45.3	45.4	45.4	45.4	45.6	46.1															
≥10000	37.0	39.6	43.1	44.7	45.0	45.7	46.5	47.3	47.3	47.3	47.3	47.5	47.5	47.5	47.6	48.2															
≥9000	37.9	40.5	44.3	46.1	46.4	47.1	47.9	48.7	48.7	48.7	48.7	48.8	48.8	48.8	49.0	49.5															
≥8000	42.7	45.3	49.4	51.3	51.6	52.4	53.3	54.2	54.2	54.2	54.2	54.3	54.3	54.3	54.4	55.0															
≥7000	42.8	45.4	49.9	51.8	52.1	52.9	53.9	54.7	54.7	54.7	54.7	54.8	54.8	54.8	55.0	55.5															
≥6000	43.0	45.6	50.1	52.0	52.3	53.1	54.0	54.8	54.8	54.8	54.8	55.0	55.0	55.0	55.1	55.7															
≥5000	45.0	47.6	52.4	54.3	54.6	55.5	56.5	57.3	57.3	57.3	57.3	57.4	57.4	57.4	57.6	58.1															
≥4500	46.7	51.3	56.9	58.8	59.1	60.2	61.3	62.1	62.1	62.1	62.1	62.2	62.2	62.2	62.3	62.9															
≥4000	51.6	54.7	61.0	63.2	63.4	64.7	65.8	66.7	66.7	66.7	66.7	66.8	66.8	66.8	67.0	67.5															
≥3500	56.8	60.7	66.4	68.6	69.0	70.4	71.5	72.4	72.4	72.4	72.4	72.6	72.6	72.6	72.7	73.3															
≥3000	60.2	64.1	71.2	73.4	73.9	75.4	76.7	77.6	77.6	77.6	77.6	77.8	77.8	77.8	77.9	78.4															
≥2500	61.8	65.9	73.1	75.3	75.9	77.8	79.1	80.1	80.1	80.1	80.1	80.2	80.2	80.2	80.4	80.9															
≥2000	64.8	69.9	76.9	79.8	80.4	82.5	84.3	85.5	85.8	85.8	85.8	85.9	85.9	85.9	86.1	86.6															
≥1800	65.5	69.6	77.8	80.6	81.4	83.6	85.7	86.9	87.2	87.2	87.2	87.3	87.3	87.3	87.4	88.0															
≥1600	67.3	71.8	80.5	83.5	84.3	87.2	89.2	90.5	90.7	90.7	90.7	90.9	90.9	90.9	91.0	91.5															
≥1400	69.6	73.1	82.0	85.1	85.9	88.8	90.9	92.1	92.4	92.4	92.4	92.5	92.5	92.5	92.6	93.2															
≥1200	70.1	74.6	84.0	87.2	88.0	90.9	93.0	94.3	94.5	94.5	94.5	94.7	94.7	94.7	94.8	95.4															
≥1000	70.4	74.9	84.6	87.7	88.5	91.4	93.6	94.8	95.1	95.1	95.1	95.2	95.2	95.2	95.4	95.9															
≥900	70.9	75.4	85.1	88.3	89.2	92.2	94.4	95.6	95.9	95.9	95.9	96.0	96.2	96.2	96.3	96.9															
≥800	70.9	75.4	85.3	88.4	89.4	92.4	94.7	95.9	96.2	96.2	96.2	96.3	96.5	96.5	96.6	97.1															
≥700	70.9	75.4	85.4	88.5	89.5	92.6	95.4	96.6	96.9	96.9	96.9	97.0	97.1	97.1	97.3	97.8															
≥600	70.9	75.4	85.4	88.7	89.6	92.8	95.5	97.0	97.3	97.3	97.3	97.4	97.5	97.5	97.7	98.2															
≥500	70.9	75.4	85.4	89.1	90.2	93.3	96.0	97.5	97.8	98.0	98.0	98.1	98.2	98.2	98.4	98.9															
≥400	70.9	75.4	85.4	89.1	90.3	93.5	96.2	97.7	98.0	98.1	98.1	98.2	98.3	98.3	98.5	99.0															
≥300	70.9	75.4	85.4	89.1	90.3	93.5	96.2	97.7	98.0	98.1	98.1	98.2	98.3	98.3	98.5	99.0															
≥200	70.9	75.4	85.4	89.1	90.3	93.5	96.2	97.7	98.0	98.1	98.1	98.2	98.3	98.3	98.5	99.0															
≥100	70.9	75.4	85.4	89.1	90.3	93.5	96.2	97.7	98.0	98.1	98.1	98.2	98.3	98.3	98.5	99.0															

TOTAL NUMBER OF OBSERVATIONS 733



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

15621 ALCONBURY RAF UK

73-82

061

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300  
LOCAL TIME

CEILING FEET	VISIBILITY: STATUTE MILES OR (HUNDREDS OF METERS)															
	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95
>10	66.9	66.8	66.6	66.4	66.2	66.0	65.8	65.6	65.4	65.2	65.0	64.8	64.6	64.4	64.2	64.0
1000	35.9	37.3	41.8	43.5	43.7	44.9	46.0	46.3	46.9	47.0	47.2	47.3	47.9	47.9	48.5	48.5
800	35.9	37.3	41.8	43.5	43.7	44.9	46.0	46.3	46.9	47.0	47.2	47.3	47.9	47.9	48.5	48.5
600	35.9	37.3	41.8	43.5	43.7	44.9	46.0	46.3	46.9	47.0	47.2	47.3	47.9	47.9	48.5	48.5
400	35.9	37.3	41.8	43.5	43.7	44.9	46.0	46.3	46.9	47.0	47.2	47.3	47.9	47.9	48.5	48.5
200	37.3	38.8	43.5	45.2	45.3	46.7	47.8	48.1	48.7	48.9	49.0	49.2	49.3	49.8	50.4	50.4
100	37.4	39.2	44.0	45.6	46.0	47.5	48.5	48.9	49.5	49.6	49.8	49.9	50.5	50.5	51.1	51.1
50	40.6	42.4	47.3	49.0	49.3	51.1	52.2	52.7	53.3	53.4	53.6	53.7	54.4	54.4	55.0	55.0
25	41.4	43.2	48.2	49.9	50.2	52.1	53.1	53.6	54.2	54.4	54.5	54.7	55.3	55.3	55.9	55.9
10	42.3	44.1	49.2	50.8	51.1	53.0	54.0	54.5	55.1	55.3	55.4	55.6	56.2	56.2	56.8	56.8
5	44.6	46.4	51.9	53.6	53.9	55.7	56.8	57.3	57.9	58.0	58.2	58.3	58.9	58.9	59.5	59.5
2	48.1	50.2	56.2	58.0	58.3	60.7	61.2	61.7	62.3	62.4	62.6	62.7	63.4	63.4	64.0	64.0
1	51.8	54.2	60.9	62.7	63.1	65.0	66.1	66.6	67.2	67.3	67.5	67.6	68.2	68.2	68.9	68.9
0.5	56.3	58.8	65.5	67.6	67.9	69.9	71.0	71.5	72.1	72.2	72.4	72.5	73.1	73.1	73.7	73.7
0.2	58.8	61.2	68.7	71.0	71.3	73.3	74.4	74.8	75.4	75.6	75.7	75.9	76.5	76.5	77.1	77.1
0.1	60.9	63.5	71.5	73.7	74.0	76.0	77.1	77.6	78.2	78.3	78.5	78.6	79.2	79.2	79.8	79.8
0.05	63.8	66.6	74.8	77.4	77.9	80.0	81.1	81.8	82.4	82.6	82.7	82.9	83.5	83.5	84.1	84.1
0.02	64.0	66.7	75.0	77.9	78.3	81.2	82.3	83.1	83.7	83.8	84.0	84.1	84.7	84.7	85.3	85.3
0.01	65.3	68.2	76.8	79.8	80.5	83.8	85.2	86.0	86.7	86.9	87.0	87.2	87.8	87.8	88.4	88.4
0.005	66.4	69.3	78.0	81.4	82.0	86.0	87.3	88.4	89.0	89.2	89.3	89.5	90.1	90.1	90.7	90.7
0.002	67.0	70.2	79.1	82.4	83.1	87.5	88.9	89.9	90.5	90.7	90.8	91.0	91.6	91.6	92.2	92.2
0.001	68.1	71.3	80.2	83.5	84.1	88.5	89.9	91.0	91.6	91.8	91.9	92.1	92.7	92.7	93.3	93.3
0.0005	68.1	71.3	80.2	83.5	84.1	88.5	89.9	91.0	91.6	91.8	91.9	92.1	92.7	92.7	93.3	93.3
0.0002	68.2	71.5	80.6	84.1	84.7	89.3	90.7	91.8	92.5	92.7	92.8	93.0	93.6	93.6	94.2	94.2
0.0001	68.5	71.8	80.9	84.4	85.0	90.2	91.6	92.8	93.7	94.0	94.2	94.4	95.0	95.0	95.6	95.6
0.00005	68.5	71.8	80.9	84.4	85.0	90.2	91.6	92.8	93.7	94.0	94.2	94.4	95.0	95.0	95.6	95.6
0.00002	68.5	71.8	80.9	84.4	85.0	90.2	91.6	92.8	93.7	94.0	94.2	94.4	95.0	95.0	95.6	95.6
0.00001	68.5	71.8	80.9	84.4	85.0	90.2	91.6	92.8	93.7	94.0	94.2	94.4	95.0	95.0	95.6	95.6
0.000005	68.5	71.8	80.9	84.4	85.0	90.2	91.6	92.8	93.7	94.0	94.2	94.4	95.0	95.0	95.6	95.6
0.000002	68.5	71.8	80.9	84.4	85.0	90.2	91.6	92.8	93.7	94.0	94.2	94.4	95.0	95.0	95.6	95.6
0.000001	68.5	71.8	80.9	84.4	85.0	90.2	91.6	92.8	93.7	94.0	94.2	94.4	95.0	95.0	95.6	95.6

TOTAL NUMBER OF OBSERVATIONS 655

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

75621

ALCONBURY RAF UK

73-87

OCT

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
NO CEILING	25.6	27.7	29.9	31.1	31.4	32.6	33.4	33.8	34.1	34.1	34.3	34.5	34.7	34.9	35.5	
≥20000	31.7	33.5	37.1	38.6	38.9	42.3	41.3	41.7	42.2	42.2	42.4	42.6	42.9	43.1	43.8	
≥18000	31.8	33.6	37.2	38.7	39.0	42.4	41.4	41.9	42.3	42.4	42.5	42.7	43.0	43.2	44.0	
≥16000	31.8	33.6	37.2	38.7	39.0	42.4	41.4	41.9	42.3	42.4	42.5	42.7	43.0	43.2	44.0	
≥14000	31.9	33.7	37.3	38.7	39.1	42.5	41.5	41.9	42.4	42.4	42.6	42.8	43.1	43.3	44.0	
≥12000	32.3	34.1	37.7	39.2	39.6	42.9	41.5	42.4	42.9	42.9	43.1	43.3	43.6	43.8	44.5	
≥10000	34.1	36.7	39.7	41.2	41.6	43.7	44.1	44.6	45.1	45.1	45.3	45.5	45.8	46.0	46.8	
≥9000	34.9	36.9	40.8	42.3	42.7	44.2	45.3	45.8	46.3	46.4	46.6	46.7	47.0	47.3	48.0	
≥8000	39.4	41.6	45.9	47.5	47.9	49.6	50.7	51.3	51.8	51.9	52.0	52.2	52.5	52.8	53.5	
≥7000	41.4	42.7	47.1	48.8	49.2	50.8	52.0	52.6	53.1	53.1	53.3	53.5	53.8	54.1	54.8	
≥6000	41.9	43.1	47.6	49.3	49.7	51.3	52.4	53.0	53.6	53.6	53.8	54.0	54.3	54.5	55.3	
≥5000	43.7	45.3	50.1	51.8	52.2	53.9	55.1	55.7	56.2	56.3	56.5	56.7	57.0	57.2	58.0	
≥4500	45.7	48.1	53.3	55.2	55.6	57.3	58.5	59.2	59.7	59.8	60.0	60.2	60.5	60.7	61.4	
≥4000	45.4	52.1	57.8	59.7	60.1	62.0	63.2	64.7	64.6	64.7	64.9	65.1	65.4	65.7	66.4	
≥3500	51.7	55.6	61.5	63.5	63.9	66.0	67.3	68.0	68.7	68.8	69.0	69.2	69.5	69.8	70.5	
≥3000	55.6	58.7	65.1	67.2	67.7	69.9	71.3	72.1	72.7	72.8	73.0	73.2	73.6	73.9	74.6	
≥2500	58.1	61.2	68.0	70.2	70.7	73.0	74.4	75.2	76.0	76.0	76.3	76.5	76.9	77.1	77.9	
≥2000	61.2	64.7	72.1	74.7	75.2	77.9	79.5	80.5	81.3	81.3	81.6	81.8	82.2	82.4	83.2	
≥1800	61.6	65.2	72.7	75.3	75.9	78.7	80.4	81.4	82.2	82.2	82.5	82.7	83.1	83.3	84.1	
≥1600	63.3	66.9	74.9	77.8	78.5	81.6	83.5	84.5	85.3	85.4	85.7	85.9	86.3	86.5	87.3	
≥1400	64.4	68.2	76.4	79.7	80.4	83.8	85.7	86.9	87.6	87.7	88.0	88.2	88.6	88.9	89.6	
≥1200	65.1	68.9	77.5	81.8	81.5	85.1	87.1	88.2	89.2	89.3	89.5	89.8	90.3	90.5	91.3	
≥1000	65.4	69.3	77.8	81.2	81.9	85.5	87.5	88.7	89.7	89.8	90.0	90.3	90.8	91.0	91.8	
≥900	65.6	69.5	78.2	81.7	82.3	86.2	88.2	89.4	90.5	90.6	90.8	91.1	91.6	91.9	92.7	
≥800	65.8	69.6	78.5	82.1	82.7	86.6	88.8	90.0	91.3	91.4	91.7	92.0	92.5	92.7	93.5	
≥700	65.9	69.7	78.7	82.3	83.0	87.0	89.4	90.7	92.1	92.2	92.5	92.8	93.3	93.5	94.3	
≥600	65.9	69.8	78.8	82.5	83.2	87.5	90.0	91.4	92.9	93.0	93.3	93.6	94.1	94.4	95.2	
≥500	65.9	69.8	78.9	82.7	83.4	87.7	90.3	91.8	93.3	93.6	93.9	94.3	94.8	95.1	95.9	
≥400	65.9	69.8	78.9	82.7	83.5	87.8	90.6	92.1	93.9	94.2	94.6	95.1	95.8	96.1	97.4	
≥300	65.9	69.8	78.9	82.8	83.5	87.8	90.6	92.3	94.1	94.4	94.9	95.4	96.5	97.7	98.9	
≥200	65.9	69.8	78.9	82.8	83.5	87.8	90.6	92.3	94.2	94.5	95.0	95.6	96.7	97.3	99.7	
≥100	65.9	69.8	78.9	82.8	83.5	87.8	90.6	92.3	94.2	94.5	95.0	95.6	96.7	97.3	100.0	

TOTAL NUMBER OF OBSERVATIONS 6072

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

35621

ALCONBURY RAF UK

73-77, 79, 81-82

NAV

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

000-0000  
HOURS

CEILING FEET	VISIBILITY STATUTE MILES OR (HUNDREDS OF METERS)															
	≥10 >16	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
NO CEILING	32.6	34.3	38.9	41.2	41.6	43.3	45.8	45.8	46.0	46.0	46.0	46.4	46.4	47.1	48.7	
≥ 20000	35.8	38.1	42.7	45.2	45.8	48.1	50.6	50.6	50.8	50.8	50.8	50.8	51.3	51.3	51.9	53.6
≥ 18000	35.8	38.1	42.7	45.2	45.8	48.1	50.6	50.6	50.8	50.8	50.8	50.8	51.3	51.3	51.9	53.6
≥ 16000	35.8	38.1	42.7	45.2	45.8	48.1	50.6	50.6	50.8	50.8	50.8	50.8	51.3	51.3	51.9	53.6
≥ 14000	35.8	38.1	42.7	45.2	45.8	48.1	50.6	50.6	50.8	50.8	50.8	50.8	51.3	51.3	51.9	53.6
≥ 12000	35.8	38.1	42.7	45.2	45.8	48.1	50.6	50.6	50.8	50.8	50.8	50.8	51.3	51.3	51.9	53.6
≥ 10000	37.2	39.7	44.4	46.9	47.5	49.8	52.3	52.3	52.5	52.5	52.5	52.9	52.9	53.6	55.2	
≥ 9000	37.7	40.4	45.0	47.5	48.1	50.4	52.9	52.9	53.1	53.1	53.1	53.6	53.6	54.2	55.9	
≥ 8000	39.3	42.1	47.1	49.6	50.2	52.7	55.2	55.2	55.4	55.4	55.4	55.9	55.9	56.5	58.2	
≥ 7000	40.4	43.1	48.1	50.6	51.3	53.8	56.3	56.3	56.5	56.5	56.5	56.9	56.9	57.5	59.2	
≥ 6000	41.0	43.7	49.2	51.7	52.5	55.0	57.5	57.5	57.7	57.7	57.7	58.2	58.2	58.8	60.5	
≥ 5000	43.1	45.8	51.5	54.0	54.8	57.3	59.8	59.8	60.0	60.0	60.0	60.5	60.5	61.1	62.8	
≥ 4500	45.6	48.3	54.0	56.5	57.3	59.8	62.3	62.3	62.6	62.6	62.6	63.0	63.0	63.6	65.3	
≥ 4000	48.1	50.8	57.9	60.5	61.5	64.4	66.9	66.9	67.2	67.2	67.2	67.6	67.6	68.2	69.9	
≥ 3500	51.3	54.0	61.9	64.6	65.9	68.8	71.3	71.3	71.5	71.5	71.5	71.8	71.8	72.2	72.8	74.5
≥ 3000	54.2	56.9	66.3	69.2	70.5	73.4	75.9	76.4	77.0	77.0	77.0	77.2	77.2	77.6	78.2	79.9
≥ 2500	55.2	58.4	67.8	70.9	72.2	75.1	77.6	78.0	78.7	78.7	78.7	78.9	78.9	79.3	79.9	81.6
≥ 2000	56.9	60.0	70.3	73.4	74.7	78.0	80.5	81.0	82.0	82.0	82.0	82.2	82.2	82.6	83.3	84.9
≥ 1800	57.3	60.5	70.9	74.1	75.3	78.7	81.2	81.6	82.6	82.6	82.6	83.0	83.0	83.3	83.9	85.6
≥ 1500	58.6	62.3	73.0	76.2	77.4	80.8	83.3	83.7	84.7	84.7	84.7	85.4	85.4	85.4	86.0	87.7
≥ 1200	61.0	63.8	74.5	78.5	79.7	83.1	85.6	86.0	87.0	87.0	87.0	87.2	87.2	87.7	88.3	90.0
≥ 1000	60.5	65.1	75.9	80.3	81.6	85.1	87.7	88.1	89.1	89.1	89.1	89.3	89.3	89.7	90.4	92.1
≥ 900	60.5	65.1	75.9	80.3	81.6	85.1	87.7	88.1	89.1	89.1	89.1	89.3	89.3	89.7	90.4	92.1
≥ 800	60.9	65.5	76.4	80.8	82.0	85.6	88.1	88.5	89.5	89.5	89.5	89.7	89.7	90.2	90.8	92.5
≥ 700	61.5	66.1	77.0	81.4	82.6	86.4	89.1	89.5	90.6	90.6	90.6	91.2	91.2	91.8	93.5	
≥ 500	61.5	66.1	77.2	81.8	83.1	87.0	89.7	90.2	91.2	91.4	91.4	91.8	91.8	92.5	94.1	
≥ 400	61.5	66.1	77.2	82.4	83.9	87.9	91.4	91.8	92.5	92.7	92.9	93.3	93.3	93.9	95.6	
≥ 300	61.5	66.1	77.2	82.4	83.9	87.9	91.4	91.8	92.5	92.7	92.9	93.3	93.3	93.9	95.6	
≥ 200	61.5	66.1	77.2	82.4	83.9	87.9	91.4	91.8	92.5	92.7	92.9	93.3	93.3	93.9	95.6	
≥ 100	61.5	66.1	77.2	82.4	83.9	87.9	91.4	91.8	92.5	92.7	92.9	93.3	93.3	93.9	95.6	
≥ 50	61.5	66.1	77.2	82.4	83.9	87.9	91.4	91.8	92.5	92.7	92.9	93.3	93.3	93.9	95.6	

TOTAL NUMBER OF OBSERVATIONS 478

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

35521

ALCONBURY RAF UK

73-87

YEARS

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1700-0500  
HOURS

CEILING FEET	VISIBILITY STATUTE MILES OR (HUNDREDS OF METERS)															
	≥10	20	25	24	23	22	21	20	19	18	17	16	15	14	13	12
≥20000	31.7	32.6	35.7	36.5	36.9	39.4	47.5	40.9	41.6	41.7	41.7	42.7	42.3	42.8	44.4	44.4
18000	33.5	34.4	37.9	38.7	39.1	42.0	43.1	43.5	44.2	44.4	44.4	44.6	44.9	45.5	47.0	47.0
16000	33.5	34.4	37.9	38.7	39.1	42.0	43.1	43.5	44.2	44.4	44.4	44.6	44.9	45.5	47.0	47.0
14000	33.5	34.4	37.9	38.7	39.1	42.0	43.1	43.5	44.2	44.4	44.4	44.6	44.9	45.5	47.0	47.0
12000	33.5	34.4	37.9	38.7	39.1	42.0	43.1	43.5	44.2	44.4	44.4	44.6	44.9	45.5	47.0	47.0
10000	33.5	34.4	37.9	38.7	39.1	42.0	43.1	43.5	44.2	44.4	44.4	44.6	44.9	45.5	47.0	47.0
8000	33.5	34.4	37.9	38.7	39.1	42.0	43.1	43.5	44.2	44.4	44.4	44.6	44.9	45.5	47.0	47.0
6000	33.5	34.4	37.9	38.7	39.1	42.0	43.1	43.5	44.2	44.4	44.4	44.6	44.9	45.5	47.0	47.0
4000	33.5	34.4	37.9	38.7	39.1	42.0	43.1	43.5	44.2	44.4	44.4	44.6	44.9	45.5	47.0	47.0
2000	33.5	34.4	37.9	38.7	39.1	42.0	43.1	43.5	44.2	44.4	44.4	44.6	44.9	45.5	47.0	47.0
1000	33.5	34.4	37.9	38.7	39.1	42.0	43.1	43.5	44.2	44.4	44.4	44.6	44.9	45.5	47.0	47.0
800	33.5	34.4	37.9	38.7	39.1	42.0	43.1	43.5	44.2	44.4	44.4	44.6	44.9	45.5	47.0	47.0
600	33.5	34.4	37.9	38.7	39.1	42.0	43.1	43.5	44.2	44.4	44.4	44.6	44.9	45.5	47.0	47.0
400	33.5	34.4	37.9	38.7	39.1	42.0	43.1	43.5	44.2	44.4	44.4	44.6	44.9	45.5	47.0	47.0
200	33.5	34.4	37.9	38.7	39.1	42.0	43.1	43.5	44.2	44.4	44.4	44.6	44.9	45.5	47.0	47.0
100	33.5	34.4	37.9	38.7	39.1	42.0	43.1	43.5	44.2	44.4	44.4	44.6	44.9	45.5	47.0	47.0
50	33.5	34.4	37.9	38.7	39.1	42.0	43.1	43.5	44.2	44.4	44.4	44.6	44.9	45.5	47.0	47.0
25	33.5	34.4	37.9	38.7	39.1	42.0	43.1	43.5	44.2	44.4	44.4	44.6	44.9	45.5	47.0	47.0
10	33.5	34.4	37.9	38.7	39.1	42.0	43.1	43.5	44.2	44.4	44.4	44.6	44.9	45.5	47.0	47.0
5	33.5	34.4	37.9	38.7	39.1	42.0	43.1	43.5	44.2	44.4	44.4	44.6	44.9	45.5	47.0	47.0
2	33.5	34.4	37.9	38.7	39.1	42.0	43.1	43.5	44.2	44.4	44.4	44.6	44.9	45.5	47.0	47.0
1	33.5	34.4	37.9	38.7	39.1	42.0	43.1	43.5	44.2	44.4	44.4	44.6	44.9	45.5	47.0	47.0

TOTAL NUMBER OF OBSERVATIONS 726

USAF ETAC FORM 10-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

75621  
STATION

ALCONBURY RAF UK  
STATION NAME

73-87  
YEARS

NOV  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

600-7800  
FOOT FT

CEILING FEET	VISIBILITY STATUTE MILES															
	OR (HUNDREDS OF METERS)															
	≥10	≥6	≥5	≥4	≥3	≥2	≥2	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1	≥1
	≥10	GE9	GE8	GE6	GE4	GE3	GE2	GE2	GE2	GE1	GE1	GE1	GE1	GE1	GE1	GE1
NO CEILING		24.3	25.5	26.1	28.9	29.5	37.1	31.3	31.9	33.1	33.6	33.6	33.6	33.7	34.1	35.4
≥7000		27.6	28.9	31.5	32.6	32.7	33.9	35.3	35.8	37.2	37.8	37.9	37.9	38.3	38.7	40.1
≥18000		27.6	28.9	31.5	32.6	32.7	33.9	35.3	35.8	37.2	37.8	37.9	37.9	38.3	38.7	40.1
≥16500		27.6	28.9	31.5	32.6	32.7	33.9	35.3	35.8	37.2	37.8	37.9	37.9	38.3	38.7	40.1
≥14000		27.6	28.9	31.5	32.6	32.7	33.9	35.3	35.8	37.2	37.8	37.9	37.9	38.3	38.7	40.1
≥12000		26.1	29.6	32.2	33.2	33.3	34.5	35.9	36.5	37.9	38.4	38.5	38.5	38.9	39.3	40.8
≥10000		30.6	32.3	35.0	36.1	36.2	37.5	39.1	39.6	41.7	41.5	41.7	41.7	42.1	42.4	43.9
≥9000		31.9	33.6	36.3	37.4	37.5	38.9	40.5	41.0	42.6	43.1	43.2	43.2	43.6	44.0	45.4
≥8000		34.6	36.5	39.3	40.4	40.5	41.9	43.5	44.3	45.8	46.4	46.5	46.5	46.9	47.3	48.7
≥7000		35.2	37.7	39.8	40.9	41.0	42.4	44.0	44.8	46.4	47.0	47.1	47.1	47.5	47.9	49.3
≥6000		35.7	37.5	41.4	41.4	41.5	43.7	44.5	45.3	46.9	47.5	47.7	47.7	48.0	48.4	49.9
≥5000		37.6	39.6	42.6	43.8	43.9	45.6	47.1	48.7	49.6	50.7	50.4	50.4	50.8	51.2	52.6
≥4500		41.1	43.2	46.7	48.0	48.2	50.0	51.6	52.7	54.0	54.7	54.8	54.8	55.2	55.6	57.0
≥4000		46.1	48.6	52.2	53.8	53.9	55.7	57.4	58.6	60.2	60.8	60.9	60.9	61.3	61.7	63.2
≥3500		48.6	51.2	55.5	57.7	57.2	59.1	60.7	62.0	63.7	64.3	64.5	64.5	65.0	65.4	66.8
≥3000		51.3	54.7	59.2	61.1	61.2	63.2	64.8	66.1	68.0	68.6	68.8	68.8	69.3	69.7	71.1
≥2500		52.6	55.5	61.2	63.2	63.4	65.5	67.3	68.6	70.6	71.2	71.4	71.4	72.0	72.4	73.8
≥2000		56.5	59.8	66.5	68.6	68.9	71.4	73.7	75.1	77.1	77.7	78.0	78.0	78.6	79.0	80.5
≥1800		56.5	59.8	66.8	69.0	69.3	71.7	74.2	75.7	77.7	78.4	78.6	78.6	79.3	79.7	81.1
≥1600		58.3	61.7	69.5	72.0	72.3	74.9	77.5	78.9	81.0	81.6	81.9	81.9	82.6	82.9	84.4
≥1400		60.0	63.4	71.6	74.1	74.3	77.7	79.7	81.1	83.2	83.9	84.1	84.1	84.8	85.2	86.6
≥1200		61.5	65.1	73.4	76.7	76.3	79.7	81.8	83.2	85.4	86.3	86.7	86.7	87.4	87.8	89.2
≥1000		62.0	65.6	74.1	76.8	77.1	79.9	82.7	84.1	86.3	87.2	87.6	87.6	88.3	88.7	90.1
≥900		62.1	65.8	74.3	77.2	77.5	80.6	83.3	84.8	87.0	87.9	88.3	88.3	88.9	89.3	90.8
≥800		62.2	66.1	74.7	77.6	77.9	81.4	84.2	85.8	88.2	89.1	89.6	89.6	90.2	90.6	92.1
≥700		62.2	66.3	75.0	77.9	78.1	81.6	84.6	86.2	88.5	89.5	90.1	90.1	90.8	91.1	92.6
≥600		62.4	66.4	75.3	78.3	78.5	82.2	85.4	87.7	89.3	90.2	90.9	90.9	91.5	91.9	93.4
≥500		62.4	66.4	75.8	78.8	79.0	82.8	86.1	87.6	90.0	90.9	91.5	91.5	92.2	92.6	94.0
≥400		62.4	66.4	75.9	79.4	79.7	83.5	87.0	88.7	91.3	92.3	93.0	93.0	94.0	94.9	97.3
≥300		62.4	66.4	75.9	79.4	79.7	83.6	87.1	88.7	91.5	92.6	93.2	93.4	94.7	95.8	98.4
≥200		62.4	66.4	75.9	79.4	79.7	83.6	87.1	88.7	91.5	92.6	93.2	93.4	94.8	96.1	100.0
≥100		62.4	66.4	75.9	79.4	79.7	83.6	87.1	88.7	91.5	92.6	93.2	93.4	94.8	96.1	100.0

TOTAL NUMBER OF OBSERVATIONS 768

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

135621 ALCONBURY PAF UK

73-82

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1970-1980

CEILING FEET	VISIBILITY STATUTE MILES OR (HUNDREDS OF METERS)															
	210	20	25	24	23	22	21	20	19	18	17	16	15	14	13	12
210	21.0	20.0	25.0	24.0	23.0	22.0	21.0	20.0	19.0	18.0	17.0	16.0	15.0	14.0	13.0	12.0
2000	24.8	25.5	27.8	28.4	28.8	29.5	30.2	30.4	31.1	31.3	31.3	31.3	31.6	32.1	33.1	
1800	32.1	33.0	36.9	37.8	38.3	39.3	39.9	40.3	40.9	41.2	41.2	41.2	41.6	42.1	43.2	
1600	32.1	33.0	36.9	37.8	38.3	39.3	39.9	40.3	40.9	41.2	41.2	41.2	41.6	42.1	43.2	
1400	32.1	33.0	36.9	37.8	38.3	39.3	39.9	40.3	40.9	41.2	41.2	41.2	41.6	42.1	43.2	
1200	32.1	33.0	36.9	37.8	38.3	39.3	39.9	40.3	40.9	41.2	41.2	41.2	41.6	42.1	43.2	
1000	32.1	33.0	36.9	37.8	38.3	39.3	39.9	40.3	40.9	41.2	41.2	41.2	41.6	42.1	43.2	
800	32.1	33.0	36.9	37.8	38.3	39.3	39.9	40.3	40.9	41.2	41.2	41.2	41.6	42.1	43.2	
600	32.1	33.0	36.9	37.8	38.3	39.3	39.9	40.3	40.9	41.2	41.2	41.2	41.6	42.1	43.2	
400	32.1	33.0	36.9	37.8	38.3	39.3	39.9	40.3	40.9	41.2	41.2	41.2	41.6	42.1	43.2	
200	32.1	33.0	36.9	37.8	38.3	39.3	39.9	40.3	40.9	41.2	41.2	41.2	41.6	42.1	43.2	
100	32.1	33.0	36.9	37.8	38.3	39.3	39.9	40.3	40.9	41.2	41.2	41.2	41.6	42.1	43.2	
50	32.1	33.0	36.9	37.8	38.3	39.3	39.9	40.3	40.9	41.2	41.2	41.2	41.6	42.1	43.2	
25	32.1	33.0	36.9	37.8	38.3	39.3	39.9	40.3	40.9	41.2	41.2	41.2	41.6	42.1	43.2	
10	32.1	33.0	36.9	37.8	38.3	39.3	39.9	40.3	40.9	41.2	41.2	41.2	41.6	42.1	43.2	
5	32.1	33.0	36.9	37.8	38.3	39.3	39.9	40.3	40.9	41.2	41.2	41.2	41.6	42.1	43.2	
2	32.1	33.0	36.9	37.8	38.3	39.3	39.9	40.3	40.9	41.2	41.2	41.2	41.6	42.1	43.2	
1	32.1	33.0	36.9	37.8	38.3	39.3	39.9	40.3	40.9	41.2	41.2	41.2	41.6	42.1	43.2	
0	32.1	33.0	36.9	37.8	38.3	39.3	39.9	40.3	40.9	41.2	41.2	41.2	41.6	42.1	43.2	

TOTAL NUMBER OF OBSERVATIONS 789

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

75521

ALCONBURY RAF UK

73-87

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400  
HOURS UTC

ELEVATION FEET		VISIBILITY STATUTE MILES																OR (HUNDREDS OF METERS)															
		>16	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	100	125	150	175	200											
20000	1	36.1	26.5	28.7	29.7	29.3	29.7	37.1	37.7	38.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4					
18000	2	35.7	36.4	39.1	39.8	39.9	40.4	40.1	40.6	41.0	41.1	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2					
16000	3	35.9	36.6	39.3	40.0	40.1	40.6	41.0	41.1	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2					
14000	4	36.3	37.0	39.7	40.4	40.5	41.0	41.4	41.5	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6					
12000	5	37.1	37.8	40.5	41.2	41.4	41.8	42.2	42.3	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4					
10000	6	40.3	41.1	44.0	44.7	44.9	45.3	45.9	46.1	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4					
9000	7	41.8	42.5	45.6	46.6	46.7	47.2	47.8	47.9	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2					
8000	8	45.9	47.2	51.2	50.9	51.0	51.6	52.2	52.4	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8					
7000	9	46.9	48.1	51.4	52.1	52.2	53.0	53.6	53.8	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4					
6000	10	47.0	48.4	51.6	52.4	52.5	53.3	53.9	54.2	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8					
5000	11	48.1	49.6	52.8	53.6	53.7	54.5	55.1	55.4	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0					
4500	12	49.7	51.1	54.4	55.1	55.3	56.5	57.3	57.7	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3					
4000	13	53.0	54.8	58.5	59.4	59.5	60.9	62.2	62.5	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1					
3500	14	56.0	57.9	61.9	62.9	63.0	64.6	65.8	66.1	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9					
3000	15	60.5	62.5	67.1	68.2	68.3	69.9	71.2	71.6	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3					
2500	16	63.0	65.2	69.8	70.9	71.0	72.8	74.1	74.6	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3					
2000	17	65.7	68.3	73.5	74.7	75.0	76.9	78.4	78.8	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6					
1800	18	66.0	68.8	74.1	75.3	75.6	77.5	79.0	79.4	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2					
1600	19	68.9	71.8	77.9	79.1	79.3	81.7	82.8	83.7	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2					
1400	20	71.0	74.5	81.0	82.7	83.0	85.0	86.6	87.1	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0					
1200	21	72.3	75.8	82.5	84.3	84.5	86.9	88.5	89.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0					
1000	22	73.4	77.0	83.7	85.5	85.7	88.3	89.8	90.3	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4					
900	23	73.9	77.6	84.5	86.5	86.7	89.4	90.9	91.4	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6					
800	24	74.1	78.0	85.0	87.3	87.8	90.6	92.3	92.7	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0					
700	25	74.1	78.0	85.0	87.3	87.8	90.7	92.4	93.1	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4					
600	26	74.2	78.2	85.4	87.8	88.3	91.4	93.2	94.1	95.6	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8					
500	27	74.2	78.2	85.4	87.8	88.3	91.4	93.2	94.2	96.1	96.4	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6					
400	28	74.2	78.2	85.4	87.9	88.4	91.5	93.3	94.3	96.6	96.9	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1					
300	29	74.2	78.2	85.4	87.9	88.4	91.5	93.3	94.3	96.9	97.2	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5					
200	30	74.2	78.2	85.4	87.9	88.4	91.5	93.3	94.3	96.9	97.2	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5					
100	31	74.2	78.2	85.4	87.9	88.4	91.5	93.3	94.3	96.9	97.2	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5					

TOTAL NUMBER OF OBSERVATIONS 627

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

75621

ALCONBURY RAF UK

73-85

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700

CEILING FEET	VISIBILITY STATUTE MILES																OR (HUNDREDS OF METERS)			
	20	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	20	25	24	23
1000	27.5	28.2	29.9	31.4	30.7	31.0	31.2	31.4	31.6	31.6	31.9	31.9	31.9	31.9	31.9	31.9	32.2	32.2	32.2	32.2
900	35.2	36.1	38.2	39.0	39.4	39.9	40.2	40.5	40.8	40.8	41.1	41.1	41.1	41.1	41.1	41.1	41.5	41.5	41.5	41.5
800	35.2	36.1	38.2	39.0	39.4	39.9	40.2	40.5	40.8	40.8	41.1	41.1	41.1	41.1	41.1	41.1	41.5	41.5	41.5	41.5
700	35.4	36.4	38.4	39.3	39.6	40.4	40.7	41.0	41.3	41.3	41.6	41.6	41.6	41.6	41.6	41.6	41.9	41.9	41.9	41.9
600	36.2	37.2	39.3	40.1	40.5	41.2	41.6	41.8	42.2	42.2	42.4	42.4	42.4	42.4	42.4	42.4	42.8	42.8	42.8	42.8
500	39.9	40.8	43.0	43.9	44.2	45.3	45.3	45.6	45.9	45.9	46.2	46.2	46.2	46.2	46.2	46.2	46.5	46.5	46.5	46.5
400	42.8	42.8	44.2	45.2	45.6	46.3	46.8	47.0	47.4	47.4	47.6	47.6	47.6	47.6	47.6	47.6	48.0	48.0	48.0	48.0
300	45.3	46.7	49.5	50.7	51.2	52.1	52.6	52.8	53.2	53.2	53.5	53.5	53.5	53.5	53.5	53.5	53.8	53.8	53.8	53.8
200	45.9	47.3	50.2	51.4	51.9	52.8	53.5	53.7	54.1	54.1	54.3	54.3	54.3	54.3	54.3	54.3	54.7	54.7	54.7	54.7
100	46.2	47.5	50.4	51.6	52.1	53.1	53.7	54.1	54.4	54.4	54.7	54.7	54.7	54.7	54.7	54.7	55.0	55.0	55.0	55.0
000	47.5	49.8	52.1	53.5	53.9	55.7	55.9	56.2	56.6	56.6	56.8	56.8	56.8	56.8	56.8	56.8	57.2	57.2	57.2	57.2
4500	48.8	50.5	53.9	55.3	55.8	56.8	57.9	58.3	58.7	58.7	58.9	58.9	58.9	58.9	58.9	58.9	59.3	59.3	59.3	59.3
4000	52.8	54.8	58.4	59.9	60.4	61.5	62.7	63.0	63.4	63.4	63.6	63.6	63.6	63.6	63.6	63.6	64.0	64.0	64.0	64.0
3500	56.7	58.7	62.9	64.5	65.0	66.3	67.5	68.1	68.6	68.6	68.8	68.8	68.8	68.8	68.8	68.8	69.2	69.2	69.2	69.2
3000	60.1	64.5	69.5	71.0	71.5	72.7	74.1	74.7	75.2	75.2	75.4	75.4	75.4	75.4	75.4	75.4	75.8	75.8	75.8	75.8
2500	63.5	66.1	71.5	73.2	73.7	75.7	76.4	77.0	77.5	77.5	77.7	77.7	77.7	77.7	77.7	77.7	78.1	78.1	78.1	78.1
2000	67.4	69.9	76.1	77.8	78.4	79.9	81.3	82.1	82.5	82.5	82.8	82.8	82.8	82.8	82.8	82.8	83.2	83.2	83.2	83.2
1500	68.0	70.5	76.8	78.7	79.3	81.0	82.4	83.2	83.6	83.6	83.9	83.9	83.9	83.9	83.9	83.9	84.2	84.2	84.2	84.2
1000	70.2	72.7	79.6	81.8	82.4	84.1	85.6	86.3	86.8	86.8	87.2	87.2	87.2	87.2	87.2	87.2	87.5	87.5	87.5	87.5
500	70.1	75.3	82.9	85.3	86.1	87.9	89.5	90.2	90.7	90.7	91.0	91.0	91.0	91.0	91.0	91.0	91.4	91.4	91.4	91.4
000	73.2	76.5	84.7	87.5	88.2	90.2	91.8	92.5	93.0	93.0	93.3	93.3	93.3	93.3	93.3	93.3	93.7	93.7	93.7	93.7
4500	73.5	76.7	85.3	88.1	88.8	90.8	92.4	93.1	93.6	93.6	93.9	93.9	93.9	93.9	93.9	93.9	94.3	94.3	94.3	94.3
4000	73.6	76.8	85.7	88.5	89.2	91.2	92.8	93.6	94.2	94.2	94.5	94.5	94.5	94.5	94.5	94.5	94.9	94.9	94.9	94.9
3500	73.9	77.2	86.1	88.8	89.6	91.8	93.6	94.4	95.0	95.0	95.4	95.4	95.4	95.4	95.4	95.4	95.8	95.8	95.8	95.8
3000	74.1	77.3	86.3	89.1	89.8	92.0	93.9	94.8	95.4	95.4	95.8	95.8	95.8	95.8	95.8	95.8	96.2	96.2	96.2	96.2
2500	74.2	77.5	86.7	89.5	90.2	92.4	94.3	95.2	95.6	95.6	96.1	96.1	96.1	96.1	96.1	96.1	96.5	96.5	96.5	96.5
2000	74.2	77.5	86.7	89.5	90.2	92.4	94.4	95.4	96.4	96.4	96.6	96.6	96.6	96.6	96.6	96.6	97.0	97.0	97.0	97.0
1500	74.3	77.6	86.8	89.6	90.3	92.5	94.5	95.6	96.8	97.1	97.6	97.6	97.6	97.6	97.6	97.6	98.0	98.0	98.0	98.0
1000	74.3	77.6	86.8	89.6	90.3	92.5	94.5	95.6	96.8	97.2	97.7	97.7	97.7	97.7	97.7	97.7	98.1	98.1	98.1	98.1
000	74.3	77.6	86.8	89.6	90.3	92.5	94.5	95.6	96.8	97.2	97.7	97.7	97.7	97.7	97.7	97.7	98.1	98.1	98.1	98.1

TOTAL NUMBER OF OBSERVATIONS 825



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

15621

ALCONBURY RAF UK

73-87

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

18-0-2000

CEILING FEET	VISIBILITY STATUTE MILES										OR (HUNDREDS OF METERS)									
	≥10	26	25	24	23	22	21	20	19	18	21	20	19	18	17	16	15	14	13	12
>10	GE19	GE87	GE67	GE48	GE41	GE32	GE24	GE21	GE16	GE12	GE10	GE08	GE05	GE04	GE03	GE02	GE01	GE00	GE00	GE00
1000	71.5	37.3	35.8	37.1	37.1	38.6	39.0	39.2	39.7	39.7	39.9	39.9	40.0	40.2	40.6	40.6	40.6	40.6	40.6	40.6
2000	37.1	38.1	42.6	44.1	44.1	45.8	46.5	46.6	47.5	47.5	47.6	47.6	47.8	47.9	48.3	48.3	48.3	48.3	48.3	48.3
3000	37.1	38.1	42.6	44.1	44.1	45.8	46.5	46.6	47.5	47.5	47.6	47.6	47.8	47.9	48.3	48.3	48.3	48.3	48.3	48.3
4000	37.1	38.1	42.6	44.1	44.1	45.8	46.5	46.6	47.5	47.5	47.6	47.6	47.8	47.9	48.3	48.3	48.3	48.3	48.3	48.3
5000	37.5	38.5	43.0	44.5	44.5	46.2	46.9	47.1	47.9	47.9	48.0	48.0	48.2	48.3	48.7	48.7	48.7	48.7	48.7	48.7
6000	39.7	41.2	45.8	47.3	47.3	49.0	49.7	49.9	50.7	50.7	50.8	50.8	51.0	51.1	51.5	51.5	51.5	51.5	51.5	51.5
7000	41.2	42.6	47.3	48.9	48.9	50.6	51.3	51.4	52.2	52.2	52.4	52.4	52.5	52.7	53.1	53.1	53.1	53.1	53.1	53.1
8000	44.4	46.3	51.5	53.5	53.7	55.3	56.2	56.3	57.2	57.2	57.3	57.3	57.4	57.6	58.0	58.0	58.0	58.0	58.0	58.0
9000	45.1	47.1	52.2	54.2	54.4	56.0	57.2	57.3	58.1	58.1	58.3	58.3	58.4	58.6	59.0	59.0	59.0	59.0	59.0	59.0
10000	45.8	47.8	52.9	54.9	55.1	56.7	57.9	58.0	58.8	58.8	59.0	59.0	59.1	59.3	59.7	59.7	59.7	59.7	59.7	59.7
11000	47.2	49.3	54.6	56.9	57.0	58.7	59.8	60.0	60.8	60.8	61.0	61.0	61.1	61.2	61.4	61.8	61.8	61.8	61.8	61.8
12000	49.6	51.8	57.2	59.4	59.6	61.2	62.4	62.5	63.3	63.3	63.5	63.5	63.6	63.8	63.9	64.3	64.3	64.3	64.3	64.3
13000	54.4	56.6	61.9	64.3	64.5	66.3	67.6	67.7	68.5	68.5	68.7	68.8	69.0	69.1	69.5	69.5	69.5	69.5	69.5	69.5
14000	57.7	60.0	65.9	68.3	68.4	70.2	71.6	71.8	72.8	72.8	72.9	73.0	73.2	73.5	73.9	73.9	73.9	73.9	73.9	73.9
15000	63.9	66.7	72.8	75.1	75.3	77.1	78.8	78.9	79.9	79.9	80.0	80.1	80.2	80.3	80.6	81.0	81.0	81.0	81.0	81.0
16000	66.0	69.0	75.8	78.2	78.4	80.2	81.9	82.0	83.0	83.0	83.1	83.3	83.4	83.7	84.1	84.1	84.1	84.1	84.1	84.1
17000	67.8	70.8	78.9	81.6	81.7	83.6	85.3	85.4	86.4	86.4	86.5	86.7	86.8	87.1	87.5	87.5	87.5	87.5	87.5	87.5
18000	68.0	70.9	79.4	82.0	82.2	84.1	85.8	86.0	86.9	86.9	87.1	87.2	87.4	87.6	88.1	88.1	88.1	88.1	88.1	88.1
19000	69.9	73.0	82.3	85.0	85.4	87.5	89.2	89.3	90.3	90.3	90.4	90.6	90.7	91.0	91.4	91.4	91.4	91.4	91.4	91.4
20000	71.5	75.0	84.4	87.1	87.5	89.7	91.4	91.6	92.6	92.6	92.7	92.8	93.0	93.3	93.7	93.7	93.7	93.7	93.7	93.7
21000	72.2	75.7	85.1	87.8	88.2	90.6	92.3	92.4	93.4	93.4	93.5	93.7	93.8	94.1	94.5	94.5	94.5	94.5	94.5	94.5
22000	72.3	75.8	85.3	88.1	88.5	90.9	92.6	92.7	93.7	93.7	93.8	94.0	94.1	94.4	94.8	94.8	94.8	94.8	94.8	94.8
23000	72.8	76.5	86.1	88.9	89.5	91.9	93.5	93.7	94.7	94.7	94.8	94.9	95.1	95.4	95.8	95.8	95.8	95.8	95.8	95.8
24000	72.8	76.5	86.1	89.2	89.7	92.3	94.0	94.1	95.1	95.1	95.2	95.4	95.5	95.8	96.2	96.2	96.2	96.2	96.2	96.2
25000	72.8	76.5	86.1	89.2	89.7	92.3	94.4	94.9	96.2	96.2	96.3	96.5	96.6	96.9	97.3	97.3	97.3	97.3	97.3	97.3
26000	72.8	76.5	86.1	89.2	89.7	92.3	94.4	95.2	96.8	96.8	97.1	97.2	97.5	97.9	98.3	98.3	98.3	98.3	98.3	98.3
27000	72.8	76.5	86.1	89.2	89.7	92.3	94.4	95.2	96.8	96.8	97.1	97.3	97.6	98.0	98.4	98.4	98.4	98.4	98.4	98.4
28000	72.8	76.5	86.1	89.2	89.7	92.3	94.4	95.2	96.8	96.8	97.1	97.3	97.6	98.0	98.4	98.4	98.4	98.4	98.4	98.4
29000	72.8	76.5	86.1	89.2	89.7	92.3	94.4	95.2	96.8	96.8	97.1	97.3	97.6	98.0	98.4	98.4	98.4	98.4	98.4	98.4
30000	72.8	76.5	86.1	89.2	89.7	92.3	94.4	95.2	96.8	96.8	97.1	97.3	97.6	98.0	98.4	98.4	98.4	98.4	98.4	98.4

TOTAL NUMBER OF OBSERVATIONS 712

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AFW WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

5521 ALCONBURY RAF UK

73-82

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

21.0-23.00

CEILING FEET	VISIBILITY - STATUTE MILES																OR (HUNDREDS OF METERS)														
	310	26	25	24	23	22	22	21	21	21	21	21	21	21	21	21	2516	25	20												
2000	35.2	35.8	40.4	41.5	41.8	43.8	44.7	44.8	45.5	45.5	45.8	46.1	46.4	46.9	47.2																
1800	35.7	47.7	46.3	47.3	47.6	49.9	50.8	50.9	51.7	51.8	52.1	52.7	53.3	53.6	54.3																
1600	40.3	41.3	46.9	47.9	48.2	57.5	51.4	51.5	52.3	52.4	52.7	53.3	53.6	54.7	54.3																
1400	40.3	41.3	46.9	47.9	48.2	57.5	51.4	51.5	52.3	52.4	52.7	53.3	53.6	54.7	54.3																
1200	40.3	41.3	46.9	47.9	48.2	57.5	51.4	51.5	52.3	52.4	52.7	53.3	53.6	54.7	54.3																
1000	42.6	43.8	49.3	50.4	50.7	53.7	53.9	54.7	54.7	54.9	55.2	55.8	56.1	56.5	56.8																
800	43.6	44.7	50.2	51.2	51.5	53.9	54.7	54.9	55.6	55.8	56.1	56.6	56.9	57.4	57.7																
600	46.3	47.4	53.3	54.7	55.0	57.5	58.7	58.8	59.6	59.7	60.0	60.9	61.0	61.3	61.9																
400	47.3	48.5	54.3	55.8	56.1	58.7	59.9	60.0	60.9	61.0	61.3	61.9	62.2	62.6	62.9																
200	48.2	49.3	55.2	56.6	56.9	59.6	60.7	60.9	61.8	61.9	62.2	62.9	63.1	63.5	63.8																
100	49.8	50.9	56.8	58.4	58.7	61.5	62.6	62.8	63.6	63.8	64.1	64.7	65.0	65.4	65.7																
50	51.5	53.0	59.1	60.7	61.0	63.8	65.0	65.1	66.0	66.1	66.4	67.7	67.3	67.7	68.0																
25	56.4	57.5	64.1	65.7	66.0	69.1	70.2	70.4	71.2	71.8	71.7	72.3	72.6	73.0	73.6																
12.5	58.2	59.6	66.7	68.3	68.8	71.8	73.3	73.4	74.3	74.5	74.7	75.3	75.6	76.1	76.8																
6.25	61.1	62.8	70.1	71.7	72.3	75.3	77.1	77.4	78.2	78.4	78.7	79.3	79.6	80.0	80.7																
3.125	62.8	64.5	71.8	73.4	74.7	77.2	79.0	79.7	80.1	80.3	80.6	81.3	81.6	82.0	82.8																
1.5625	65.0	66.7	74.7	76.4	76.9	80.3	82.0	82.3	83.4	83.5	83.8	84.5	84.8	85.5	86.3																
0.78125	65.8	67.6	75.9	77.7	78.2	81.8	83.8	84.1	85.1	85.3	85.5	86.3	86.6	87.3	88.0																
0.390625	67.3	69.2	78.5	80.6	81.2	85.0	87.0	87.3	88.3	88.5	88.8	89.5	89.8	90.5	91.2																
0.1953125	68.3	70.4	79.7	81.8	82.3	86.1	88.2	88.5	89.5	89.6	89.9	90.7	90.9	91.7	92.4																
0.09765625	68.5	70.5	79.9	81.9	82.5	86.3	88.5	88.8	89.8	89.9	90.2	90.9	91.2	92.0	92.7																
0.048828125	68.9	70.9	80.3	82.5	83.1	86.9	89.2	89.5	90.5	90.7	90.9	91.7	92.0	92.7	93.4																
0.0244140625	69.2	71.2	80.6	82.9	83.5	87.3	89.6	89.9	90.9	91.1	91.4	92.1	92.4	93.1	93.9																
0.01220703125	69.9	72.1	81.6	83.9	84.5	88.5	90.8	91.1	92.1	92.3	92.6	93.3	93.6	94.3	95.0																
0.006103515625	70.1	72.3	81.8	84.4	85.7	89.1	91.4	91.7	92.7	92.8	93.1	93.7	94.5	95.2	95.9																
0.0030517578125	70.1	72.3	81.9	85.0	85.5	89.6	92.0	92.4	93.4	93.6	93.9	94.6	95.3	95.8	96.5																
0.00152587890625	70.1	72.3	81.9	85.0	85.5	89.6	92.0	92.4	93.4	93.6	93.9	94.6	95.3	95.8	96.5																
0.000762939453125	70.1	72.3	81.9	85.0	85.5	89.6	92.0	92.4	93.4	93.6	93.9	94.6	95.3	95.8	96.5																
0.0003814697265625	70.1	72.3	81.9	85.0	85.5	89.6	92.0	92.4	93.4	93.6	93.9	94.6	95.3	95.8	96.5																

TOTAL NUMBER OF OBSERVATIONS 685

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

75621 ALCONBURY RAF UK

73-87

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL  
HOURS

CEILING FEET	VISIBILITY STATUTE MILES														
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05
NO CEILING	28.9	29.7	32.6	33.5	33.8	35.0	35.8	36.1	36.6	36.7	36.8	36.9	37.1	37.4	38.2
≥20000	34.4	35.5	39.1	40.2	40.5	41.9	42.8	43.1	43.7	43.9	44.0	44.1	44.3	44.6	45.5
≥18000	34.5	35.6	39.2	40.3	40.6	42.0	42.9	43.2	43.8	44.0	44.1	44.2	44.4	44.7	45.6
≥16000	34.5	35.6	39.2	40.3	40.6	42.0	42.9	43.2	43.8	44.0	44.1	44.2	44.4	44.7	45.6
≥14000	34.6	35.7	39.3	40.4	40.7	42.2	43.1	43.3	44.0	44.1	44.2	44.4	44.6	44.9	45.7
≥12000	35.1	36.3	39.8	40.9	41.2	42.7	43.6	43.9	44.6	44.7	44.8	45.0	45.2	45.5	46.3
≥10000	37.5	39.8	42.5	43.6	43.9	45.4	46.4	46.7	47.4	47.5	47.6	47.7	48.0	48.3	49.1
≥9000	38.7	40.1	43.8	44.9	45.2	46.8	47.8	48.1	48.8	48.9	49.0	49.2	49.4	49.7	50.5
≥8000	41.9	43.4	47.4	48.7	49.0	50.7	51.8	52.1	52.8	52.9	53.0	53.2	53.4	53.7	54.6
≥7000	42.6	44.1	48.2	49.5	49.8	51.5	52.7	53.0	53.8	53.9	54.0	54.1	54.4	54.7	55.5
≥6000	43.1	44.7	48.8	50.1	50.4	52.2	53.3	53.6	54.4	54.5	54.6	54.8	55.0	55.3	56.2
≥5000	44.9	46.5	50.8	52.2	52.5	54.3	55.5	55.9	56.7	56.8	56.9	57.1	57.3	57.6	58.5
≥4500	47.3	49.0	53.5	54.9	55.3	57.2	58.5	58.8	59.6	59.8	59.9	60.1	60.3	60.6	61.5
≥4000	51.3	53.2	58.2	59.7	60.1	62.1	63.5	64.0	64.8	64.9	65.0	65.2	65.4	65.7	66.6
≥3500	54.3	56.3	61.9	63.5	63.9	66.0	67.5	67.9	68.8	69.0	69.1	69.3	69.5	69.8	70.8
≥3000	56.3	58.6	66.7	68.4	68.8	70.9	72.5	73.1	74.0	74.2	74.3	74.5	74.8	75.1	76.0
≥2500	61.0	62.4	68.8	70.6	71.1	73.3	75.0	75.6	76.5	76.7	76.9	77.0	77.3	77.7	78.6
≥2000	62.8	65.4	72.6	74.6	75.2	77.6	79.4	80.0	81.0	81.2	81.4	81.5	81.8	82.2	83.2
≥1800	63.2	65.7	73.2	75.2	75.8	78.3	80.1	80.8	81.8	82.0	82.1	82.3	82.6	83.0	83.9
≥1600	65.1	67.8	76.0	78.2	78.8	81.4	83.3	83.9	85.0	85.2	85.4	85.6	85.9	86.2	87.2
≥1400	66.7	69.7	78.3	80.7	81.3	84.0	85.9	86.6	87.7	87.9	88.0	88.2	88.5	88.9	89.8
≥1200	67.6	70.8	79.5	82.1	82.7	85.5	87.5	88.1	89.3	89.6	89.7	89.9	90.2	90.6	91.5
≥1000	67.0	71.3	80.1	82.8	83.4	86.2	88.3	88.9	90.1	90.4	90.5	90.7	91.0	91.4	92.3
≥900	68.3	71.6	80.6	83.3	83.9	86.8	88.9	89.6	90.8	91.1	91.3	91.4	91.7	92.1	93.1
≥800	68.6	72.0	81.0	83.8	84.5	87.5	89.7	90.4	91.7	92.0	92.1	92.3	92.6	93.0	93.9
≥700	68.7	72.1	81.3	84.1	84.8	87.9	90.1	91.0	92.2	92.5	92.7	92.9	93.2	93.6	94.6
≥600	68.8	72.2	81.4	84.4	85.1	88.3	90.6	91.5	92.9	93.2	93.4	93.6	94.0	94.4	95.4
≥500	68.8	72.2	81.5	84.6	85.3	88.6	91.0	92.0	93.6	94.0	94.3	94.5	94.9	95.4	96.7
≥400	68.8	72.2	81.6	84.8	85.5	88.8	91.4	92.4	94.2	94.7	95.0	95.2	95.8	96.5	98.0
≥300	68.8	72.2	81.6	84.8	85.5	88.9	91.4	92.5	94.4	95.0	95.3	95.6	96.3	97.2	99.0
≥200	68.8	72.2	81.6	84.8	85.5	88.9	91.4	92.5	94.5	95.0	95.4	95.7	96.4	97.5	99.9
≥100	68.8	72.2	81.6	84.8	85.5	88.9	91.4	92.5	94.5	95.0	95.4	95.7	96.4	97.5	100.0

TOTAL NUMBER OF OBSERVATIONS 5610

USAF ETAC 1-78 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

75521 ALCONBURY RAF UK

73-78.81-62

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

030-0200

CEILING FEET	VISIBILITY STATUTE MILES															
	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95
OR IN HUNDREDS OF METERS	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95
	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95
20000	71.1	27.4	28.7	29.4	29.8	31.8	32.6	32.9	32.9	32.9	33.1	33.1	33.5	33.5	34.3	34.3
18000	24.3	25.3	31.6	32.9	33.3	35.3	36.1	36.3	36.3	36.3	36.6	36.6	37.0	37.0	37.8	37.8
16000	24.0	25.3	31.6	32.9	33.3	35.3	36.1	36.3	36.3	36.3	36.6	36.6	37.0	37.0	37.8	37.8
14000	24.0	25.3	31.6	32.9	33.3	35.3	36.1	36.3	36.3	36.3	36.6	36.6	37.0	37.0	37.8	37.8
12000	24.2	25.5	31.6	33.1	33.5	35.5	36.3	36.6	36.6	36.6	36.8	36.8	37.2	37.2	38.0	38.0
10000	24.0	25.9	32.2	33.5	33.9	35.9	36.8	37.0	37.0	37.2	37.4	37.4	37.8	37.8	38.6	38.6
8000	25.9	27.1	33.5	34.7	35.1	37.2	38.0	38.2	38.2	38.4	38.6	38.6	39.0	39.0	40.0	40.0
6000	26.7	27.9	34.5	36.3	36.8	39.2	40.0	40.2	40.2	40.5	40.7	40.7	41.1	41.1	42.1	42.1
4000	27.3	28.5	35.1	37.0	37.4	40.0	40.9	41.1	41.1	41.3	41.5	41.5	41.9	41.9	42.9	42.9
2000	28.1	29.4	36.1	38.0	38.4	41.1	41.9	42.1	42.1	42.3	42.5	42.5	42.9	42.9	43.9	43.9
1000	31.0	32.2	39.2	41.1	41.5	44.1	45.0	45.2	45.2	45.4	45.6	45.6	46.0	46.0	47.0	47.0
500	32.2	33.5	40.5	42.5	42.9	45.6	46.4	46.6	46.6	46.8	47.0	47.0	47.4	47.4	48.4	48.4
200	37.2	38.4	45.4	47.4	47.8	50.7	51.7	52.0	52.0	52.2	52.4	52.4	52.8	52.8	53.8	53.8
100	39.4	40.9	48.0	50.1	50.5	53.8	55.0	55.0	55.0	55.2	55.4	55.4	55.8	55.8	56.8	56.8
50	41.5	43.3	51.1	53.4	53.8	57.5	58.7	58.9	58.9	59.1	59.3	59.3	59.7	59.7	60.7	60.7
25	45.8	47.6	55.6	58.1	58.5	62.4	63.7	63.9	64.3	64.5	64.7	64.7	65.1	65.1	66.1	66.1
10	49.9	52.0	60.8	63.2	63.7	68.6	69.8	70.0	70.0	70.2	70.4	70.4	70.8	70.8	71.8	71.8
5	51.1	52.2	61.2	63.7	64.1	69.2	71.0	71.3	71.7	71.9	72.1	72.1	72.5	72.5	73.5	73.5
2	53.0	55.4	65.3	67.8	68.6	73.9	75.8	76.0	76.4	77.0	77.2	77.2	77.6	77.6	78.6	78.6
1	55.4	58.1	68.0	70.6	71.7	77.2	79.3	79.5	79.9	80.5	80.7	80.7	81.1	81.1	82.1	82.1
0.5	57.5	60.2	70.2	72.9	73.9	79.7	81.9	82.1	82.5	83.2	83.4	83.4	83.8	83.8	84.8	84.8
0.2	57.5	60.8	71.5	74.1	75.2	80.9	83.2	83.4	83.8	84.4	84.6	84.6	85.0	85.0	86.0	86.0
0.1	57.7	61.0	72.5	75.2	76.2	82.1	84.4	84.6	85.0	85.6	85.8	85.8	86.2	86.2	87.2	87.2
0.05	57.7	61.0	72.9	75.6	76.6	82.5	85.4	86.7	86.7	87.5	87.7	87.7	88.1	88.1	89.1	89.1
0.02	57.7	61.4	73.7	76.4	77.4	83.4	86.4	87.3	87.7	88.7	88.9	88.9	89.3	89.3	90.3	90.3
0.01	57.9	61.8	74.3	77.4	78.4	84.4	87.9	89.1	89.7	90.8	91.0	91.0	91.4	91.4	92.4	92.4
0.005	57.9	61.8	74.3	77.4	78.4	84.4	88.3	89.7	90.6	91.6	91.8	91.8	92.2	92.2	93.2	93.2
0.002	57.9	61.8	74.5	77.6	78.6	84.6	88.7	90.3	91.2	92.2	92.4	92.4	92.8	92.8	93.8	93.8
0.001	57.9	61.8	74.5	77.6	78.6	84.6	88.7	90.3	91.4	92.4	92.6	92.6	93.0	93.0	94.0	94.0
0.0005	57.9	61.8	74.5	77.6	78.6	84.6	88.7	90.3	91.4	92.4	92.6	92.6	93.0	93.0	94.0	94.0

TOTAL NUMBER OF OBSERVATIONS 487

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

75621 ALCONBURY RAF UK

73-82

DLC

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

700-0500

CEILING FEET	VISIBILITY STATUTE MILES																OR (HUNDREDS OF METERS)			
	≥10	≥9	≥8	≥6	≥4	≥3	≥2	≥1.5	≥1	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0.025	≥0.01				
≥10000	23.9	25.8	29.7	30.3	31.3	31.1	31.9	32.1	32.1	32.1	32.1	32.2	32.3	32.8	33.6					
≥9000	25.0	27.7	31.7	32.9	32.9	33.7	34.5	34.6	34.6	34.6	34.6	34.9	35.0	35.4	36.6					
≥8000	25.8	27.7	31.7	32.9	32.9	33.7	34.5	34.6	34.6	34.6	34.6	34.9	35.0	35.4	36.6					
≥7000	25.8	27.7	31.7	32.9	32.9	33.7	34.5	34.6	34.6	34.6	34.6	34.9	35.0	35.4	36.6					
≥6000	25.8	27.7	31.7	32.9	32.9	33.7	34.5	34.6	34.6	34.6	34.6	34.9	35.0	35.4	36.6					
≥5000	26.2	28.1	32.2	33.4	33.4	34.2	35.0	35.2	35.2	35.2	35.2	35.4	35.6	36.0	37.2					
≥4000	27.2	29.1	33.3	34.5	34.5	35.3	36.1	36.2	36.2	36.2	36.2	36.5	36.6	37.0	38.3					
≥3000	28.7	30.6	34.9	36.5	36.5	37.4	38.4	38.5	38.5	38.5	38.5	38.8	38.9	39.3	40.7					
≥2000	29.5	31.7	36.0	37.9	37.9	38.8	39.7	39.9	39.9	39.9	39.9	40.1	40.3	40.7	42.0					
≥1500	29.8	32.1	36.8	38.7	38.7	39.6	40.5	40.7	40.7	40.7	40.7	40.9	41.1	41.5	42.8					
≥1000	33.3	35.6	40.5	42.6	42.6	43.5	44.4	44.6	44.6	44.6	44.6	44.8	45.0	45.4	46.7					
≥800	34.2	36.8	41.9	43.9	43.9	45.0	45.9	46.0	46.2	46.2	46.2	46.4	46.6	47.0	48.5					
≥700	38.0	40.7	46.3	48.6	48.6	49.8	50.7	50.9	51.0	51.0	51.0	51.3	51.4	51.9	53.4					
≥600	41.7	44.6	50.5	52.9	52.9	54.2	55.4	55.6	55.7	55.7	55.7	56.0	56.1	56.6	58.1					
≥500	44.3	47.2	53.8	56.2	56.2	58.1	59.3	59.5	59.6	59.6	59.6	59.9	60.0	60.5	62.0					
≥400	47.8	50.7	58.1	60.7	60.7	63.0	64.2	64.3	64.4	64.4	64.4	64.7	64.8	65.4	66.8					
≥300	52.5	55.6	63.6	66.3	66.3	68.7	69.9	70.1	70.2	70.3	70.3	70.6	70.7	71.3	72.8					
≥200	53.2	56.2	64.7	67.4	67.4	69.8	71.3	71.4	71.5	71.7	71.7	71.9	72.1	72.6	74.1					
≥150	55.4	58.7	67.8	70.7	70.7	73.6	75.0	75.3	75.4	75.6	75.7	76.1	76.2	76.8	78.3					
≥100	59.1	62.6	72.1	75.2	75.2	78.0	79.6	79.9	80.0	80.1	80.3	80.7	80.8	81.3	82.8					
≥80	60.7	64.2	74.2	77.3	77.3	80.3	82.0	82.3	82.4	82.6	82.7	83.1	83.2	83.9	85.4					
≥70	60.8	64.4	75.0	78.1	78.1	81.1	82.8	83.1	83.2	83.4	83.5	83.9	84.0	84.7	86.2					
≥60	61.2	64.8	76.0	79.1	79.1	82.1	84.0	84.3	84.4	84.6	84.7	85.1	85.2	85.9	87.4					
≥50	61.3	65.0	76.1	79.2	79.2	82.6	84.6	84.8	85.0	85.1	85.2	85.8	85.9	86.6	88.1					
≥40	61.5	65.1	76.4	79.6	79.6	83.2	85.2	85.5	85.6	85.8	85.9	86.4	86.6	87.2	88.7					
≥30	61.5	65.4	76.8	80.3	80.5	84.3	86.3	86.6	86.8	87.0	87.1	87.7	88.2	88.9	90.6					
≥20	61.6	65.8	77.3	81.1	81.3	85.4	87.5	87.9	88.3	88.5	88.6	89.1	89.9	90.6	92.5					
≥10	61.6	66.0	77.6	81.3	81.6	85.6	88.1	89.0	89.5	89.7	89.8	90.5	91.5	92.9	95.8					
≥5	61.6	66.0	77.6	81.3	81.6	85.6	88.1	89.3	90.1	90.3	90.9	91.7	93.4	94.8	98.9					
≥1	61.6	66.0	77.6	81.3	81.6	85.6	88.1	89.3	90.1	90.3	90.9	91.8	94.0	95.3	100.0					

TOTAL NUMBER OF OBSERVATIONS 745

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

75521 ALCONBURY RAF UK

73-82

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

600-6800

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
OR (HUNDREDS OF METERS)	≥16	GE10	GE80	GE60	GE40	GE20	GE10	GE5	GE2	GE1	GE0.5	GE0.2	GE0.1	GE0.05	GE0.02	GE0.01
≥2000	23.4	24.6	27.9	28.9	29.0	30.1	30.5	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6
1800	26.0	27.5	30.9	32.3	32.4	33.5	34.0	34.0	34.1	34.1	34.1	34.1	34.1	34.1	34.2	34.6
1600	26.0	27.5	30.9	32.3	32.4	33.5	34.0	34.0	34.1	34.1	34.1	34.1	34.1	34.1	34.2	34.6
1400	26.0	27.5	30.9	32.3	32.4	33.5	34.0	34.0	34.1	34.1	34.1	34.1	34.1	34.1	34.2	34.6
1200	26.0	27.5	30.9	32.3	32.4	33.5	34.0	34.0	34.1	34.1	34.1	34.1	34.1	34.1	34.2	34.6
1000	26.0	27.5	30.9	32.3	32.4	33.5	34.0	34.0	34.1	34.1	34.1	34.1	34.1	34.1	34.2	34.6
800	26.0	27.5	30.9	32.3	32.4	33.5	34.0	34.0	34.1	34.1	34.1	34.1	34.1	34.1	34.2	34.6
600	26.0	27.5	30.9	32.3	32.4	33.5	34.0	34.0	34.1	34.1	34.1	34.1	34.1	34.1	34.2	34.6
400	26.0	27.5	30.9	32.3	32.4	33.5	34.0	34.0	34.1	34.1	34.1	34.1	34.1	34.1	34.2	34.6
200	26.0	27.5	30.9	32.3	32.4	33.5	34.0	34.0	34.1	34.1	34.1	34.1	34.1	34.1	34.2	34.6
100	26.0	27.5	30.9	32.3	32.4	33.5	34.0	34.0	34.1	34.1	34.1	34.1	34.1	34.1	34.2	34.6
50	26.0	27.5	30.9	32.3	32.4	33.5	34.0	34.0	34.1	34.1	34.1	34.1	34.1	34.1	34.2	34.6
25	26.0	27.5	30.9	32.3	32.4	33.5	34.0	34.0	34.1	34.1	34.1	34.1	34.1	34.1	34.2	34.6
12	26.0	27.5	30.9	32.3	32.4	33.5	34.0	34.0	34.1	34.1	34.1	34.1	34.1	34.1	34.2	34.6
6	26.0	27.5	30.9	32.3	32.4	33.5	34.0	34.0	34.1	34.1	34.1	34.1	34.1	34.1	34.2	34.6
3	26.0	27.5	30.9	32.3	32.4	33.5	34.0	34.0	34.1	34.1	34.1	34.1	34.1	34.1	34.2	34.6
1	26.0	27.5	30.9	32.3	32.4	33.5	34.0	34.0	34.1	34.1	34.1	34.1	34.1	34.1	34.2	34.6
0	26.0	27.5	30.9	32.3	32.4	33.5	34.0	34.0	34.1	34.1	34.1	34.1	34.1	34.1	34.2	34.6
0.5	26.0	27.5	30.9	32.3	32.4	33.5	34.0	34.0	34.1	34.1	34.1	34.1	34.1	34.1	34.2	34.6
0.2	26.0	27.5	30.9	32.3	32.4	33.5	34.0	34.0	34.1	34.1	34.1	34.1	34.1	34.1	34.2	34.6
0.1	26.0	27.5	30.9	32.3	32.4	33.5	34.0	34.0	34.1	34.1	34.1	34.1	34.1	34.1	34.2	34.6
0.05	26.0	27.5	30.9	32.3	32.4	33.5	34.0	34.0	34.1	34.1	34.1	34.1	34.1	34.1	34.2	34.6
0.02	26.0	27.5	30.9	32.3	32.4	33.5	34.0	34.0	34.1	34.1	34.1	34.1	34.1	34.1	34.2	34.6
0.01	26.0	27.5	30.9	32.3	32.4	33.5	34.0	34.0	34.1	34.1	34.1	34.1	34.1	34.1	34.2	34.6
0.005	26.0	27.5	30.9	32.3	32.4	33.5	34.0	34.0	34.1	34.1	34.1	34.1	34.1	34.1	34.2	34.6
0.002	26.0	27.5	30.9	32.3	32.4	33.5	34.0	34.0	34.1	34.1	34.1	34.1	34.1	34.1	34.2	34.6
0.001	26.0	27.5	30.9	32.3	32.4	33.5	34.0	34.0	34.1	34.1	34.1	34.1	34.1	34.1	34.2	34.6
0.0005	26.0	27.5	30.9	32.3	32.4	33.5	34.0	34.0	34.1	34.1	34.1	34.1	34.1	34.1	34.2	34.6
0.0002	26.0	27.5	30.9	32.3	32.4	33.5	34.0	34.0	34.1	34.1	34.1	34.1	34.1	34.1	34.2	34.6
0.0001	26.0	27.5	30.9	32.3	32.4	33.5	34.0	34.0	34.1	34.1	34.1	34.1	34.1	34.1	34.2	34.6
0.00005	26.0	27.5	30.9	32.3	32.4	33.5	34.0	34.0	34.1	34.1	34.1	34.1	34.1	34.1	34.2	34.6
0.00002	26.0	27.5	30.9	32.3	32.4	33.5	34.0	34.0	34.1	34.1	34.1	34.1	34.1	34.1	34.2	34.6
0.00001	26.0	27.5	30.9	32.3	32.4	33.5	34.0	34.0	34.1	34.1	34.1	34.1	34.1	34.1	34.2	34.6

TOTAL NUMBER OF OBSERVATIONS 824

USAF ETAC FORM 11-64 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

75623 ALCONBURY RAF UK

73-82

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1900-1100  
HOURS LT

CEILING FEET	VISIBILITY - STATUTE MILES OR (HUNDREDS OF METERS)															
	≥10 >16	≥6 GE9	≥5 GE8	≥4 GE6	≥3 GE4	≥2.5 GE3	≥2 GE2	≥1.5 GE1.5	≥1 GE1	≥0.5 GE0.5	≥0.25 GE0.25	≥0.15 GE0.15	≥0.1 GE0.1	≥0.05 GE0.05	≥0.025 GE0.025	≥0.01 GE0.01
≥20000		20.6	22.0	25.2	25.9	26.0	27.6	28.2	28.3	28.4	28.6	28.6	28.6	28.6	28.6	28.6
≥18000		24.9	26.6	30.2	30.9	31.0	32.6	33.2	33.3	33.6	33.6	33.7	33.7	33.8	33.8	34.0
≥16000		25.1	26.7	30.3	31.0	31.1	32.8	33.3	33.4	33.7	33.7	33.8	33.8	33.9	33.9	34.1
≥14000		25.1	26.7	30.3	31.0	31.1	32.8	33.3	33.4	33.7	33.7	33.8	33.8	33.9	33.9	34.1
≥12000		25.1	26.7	30.3	31.0	31.1	32.8	33.3	33.4	33.7	33.7	33.8	33.8	33.9	33.9	34.1
≥10000		25.2	26.8	30.6	31.5	31.6	33.2	33.8	33.9	34.1	34.1	34.3	34.3	34.4	34.4	34.6
≥8000		26.8	28.4	32.8	33.4	33.6	35.3	35.9	36.0	36.2	36.2	36.4	36.4	36.5	36.5	36.7
≥6000		27.6	29.3	33.6	34.3	34.4	36.1	36.7	36.8	37.1	37.1	37.2	37.2	37.3	37.3	37.5
≥4000		32.4	34.1	38.9	39.9	40.2	42.0	42.5	42.7	43.1	43.2	43.4	43.5	43.6	43.6	43.8
≥2000		32.5	34.3	39.0	40.0	40.3	42.1	42.7	42.8	43.2	43.4	43.5	43.6	43.7	43.7	43.9
≥1000		32.6	34.4	39.2	40.1	40.4	42.5	43.1	43.4	43.8	43.9	44.1	44.2	44.3	44.3	44.5
≥500		34.3	36.1	40.9	41.8	42.2	44.3	44.9	45.3	45.8	45.9	46.0	46.2	46.3	46.3	46.5
≥250		36.6	38.5	43.2	44.2	44.5	46.7	47.3	47.8	48.3	48.4	48.5	48.6	48.7	48.7	49.0
≥150		39.6	41.7	46.9	48.0	48.6	50.8	51.6	52.1	52.7	52.8	52.9	53.0	53.1	53.1	53.4
≥100		44.2	46.7	52.2	53.4	54.0	56.3	57.1	57.6	58.2	58.3	58.4	58.6	58.9	58.9	59.1
≥75		48.5	51.7	57.5	58.7	59.3	61.7	62.6	63.2	64.2	64.3	64.5	64.8	65.0	65.2	65.4
≥50		51.5	54.9	61.0	62.5	63.2	66.1	67.0	67.6	68.9	69.0	69.1	69.5	69.7	69.8	70.0
≥30		54.4	57.9	65.4	67.4	68.1	71.7	72.8	73.4	74.7	74.8	75.1	75.4	75.6	75.8	76.0
≥20		55.4	59.0	66.7	68.6	69.3	73.0	74.1	74.7	76.0	76.1	76.3	76.7	76.9	77.0	77.3
≥15		57.6	61.2	69.1	71.1	71.9	75.8	76.9	77.7	79.0	79.1	79.4	79.7	80.0	80.1	80.3
≥10		59.6	63.4	71.7	73.9	74.7	78.9	80.1	80.9	82.3	82.4	82.6	83.0	83.2	83.3	83.6
≥7.5		61.1	64.9	73.3	75.6	76.7	81.2	82.5	83.3	84.7	85.0	85.2	85.5	85.8	85.9	86.1
≥5		61.1	64.9	73.3	75.6	76.7	81.2	82.5	83.3	85.0	85.3	85.5	85.9	86.1	86.2	86.5
≥3		61.4	65.3	74.0	76.3	77.4	82.2	83.4	84.4	86.2	86.7	86.9	87.3	87.5	87.6	87.9
≥2		62.0	65.9	74.8	77.2	78.2	83.0	84.3	85.0	87.2	87.8	88.0	88.3	88.6	88.7	88.9
≥1		62.0	65.9	74.8	77.5	78.6	83.3	84.6	85.7	87.8	88.7	89.0	89.5	89.7	89.9	90.1
≥0.5		62.0	66.0	75.3	78.1	79.3	84.6	86.1	87.4	89.6	90.6	90.9	91.4	91.6	91.7	92.3
≥0.25		62.0	66.0	75.3	78.1	79.5	85.2	87.2	88.7	91.0	92.1	92.4	93.0	93.6	93.7	94.3
≥0.15		62.0	66.0	75.3	78.1	79.5	85.2	87.3	88.8	91.8	92.9	93.5	94.3	95.7	96.5	99.0
≥0.1		62.0	66.0	75.3	78.1	79.5	85.2	87.3	88.8	91.8	92.9	93.5	94.3	95.9	96.7	100.0
≥0.05		62.0	66.0	75.3	78.1	79.5	85.2	87.3	88.8	91.8	92.9	93.5	94.3	95.9	96.7	100.0

TOTAL NUMBER OF OBSERVATIONS 858

USAF ETAC D-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

25621 ALCONBURY RAF UK

73-82

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

12.0-1400

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
≥20000	23.6	25.0	26.8	27.8	27.8	28.6	28.7	29.3	29.4	29.4	29.4	29.5	29.5	29.6	29.6	29.6
18000	29.4	31.1	33.0	34.0	34.0	34.9	35.1	35.8	35.9	35.9	35.9	36.1	36.1	36.1	36.1	36.1
16000	30.1	31.7	33.7	34.7	34.7	35.6	35.8	36.5	36.6	36.6	36.6	36.7	36.7	36.8	36.8	36.8
14000	30.1	31.7	33.7	34.7	34.7	35.6	35.8	36.5	36.6	36.6	36.6	36.7	36.7	36.8	36.8	36.8
12000	30.1	31.7	33.7	34.7	34.7	35.6	35.8	36.5	36.6	36.6	36.6	36.7	36.7	36.8	36.8	36.8
10000	30.5	32.2	34.1	35.1	35.1	36.1	36.2	36.9	37.0	37.0	37.0	37.1	37.1	37.2	37.2	37.2
9000	31.8	33.6	35.8	36.8	36.8	37.7	38.0	38.7	38.8	38.8	38.8	38.9	38.9	39.0	39.0	39.0
8000	31.8	34.6	36.8	37.8	37.8	38.7	39.0	39.6	39.6	39.6	39.6	39.9	39.9	40.0	40.0	40.0
7000	32.5	38.3	40.6	41.9	42.0	43.1	43.4	44.1	44.2	44.2	44.2	44.3	44.3	44.4	44.4	44.4
6000	37.3	39.2	41.5	42.7	42.8	43.9	44.3	44.9	45.0	45.0	45.0	45.2	45.2	45.3	45.3	45.3
5000	37.3	39.2	41.5	42.7	42.8	43.9	44.3	44.9	45.0	45.0	45.0	45.2	45.2	45.3	45.3	45.3
4500	38.9	40.9	43.2	44.4	44.5	45.6	46.1	47.0	47.1	47.1	47.1	47.4	47.4	47.5	47.5	47.5
4000	41.0	43.2	45.6	46.9	47.0	48.2	48.8	49.7	49.8	49.8	49.8	50.0	50.0	50.1	50.1	50.1
3500	45.6	47.9	51.0	52.5	52.6	54.3	54.8	55.7	55.8	55.8	55.8	56.2	56.3	56.4	56.4	56.4
3000	46.6	50.9	54.1	55.6	55.7	57.7	58.3	59.1	59.3	59.3	59.3	59.6	59.7	59.8	59.8	59.8
2500	53.4	55.9	59.9	61.6	61.7	63.7	64.3	65.3	65.6	65.6	65.6	66.0	66.1	66.2	66.2	66.2
2000	56.4	59.4	63.9	65.7	66.0	68.1	68.9	70.0	70.4	70.4	70.4	70.7	70.8	70.9	70.9	70.9
1800	58.4	61.3	67.1	69.4	69.6	72.0	73.1	74.4	74.8	74.8	74.8	75.1	75.2	75.3	75.3	75.3
1600	58.5	61.5	67.2	69.5	69.7	72.2	73.3	74.7	75.0	75.0	75.0	75.3	75.4	75.6	75.6	75.6
1400	60.2	63.3	69.3	71.7	71.9	74.6	75.7	77.0	77.3	77.3	77.3	77.6	77.8	77.9	77.9	77.9
1200	62.4	65.9	72.6	75.3	75.7	78.5	80.0	81.4	81.7	81.7	81.7	82.2	82.3	82.4	82.4	82.4
1000	64.0	67.7	75.0	77.9	78.2	81.4	82.9	84.5	84.9	84.9	84.9	85.4	85.6	85.7	85.7	85.7
900	64.8	68.7	76.1	79.1	79.4	82.6	84.4	85.9	86.6	86.6	86.6	87.0	87.2	87.3	87.3	87.3
800	65.2	69.4	76.9	80.0	80.3	84.0	86.0	87.7	88.3	88.3	88.3	88.8	89.0	89.1	89.1	89.1
700	65.5	69.7	77.2	80.3	80.6	84.8	87.0	88.8	89.4	89.4	89.4	89.9	90.1	90.2	90.2	90.2
600	65.6	69.8	77.4	80.5	80.8	85.2	87.4	89.6	90.3	90.3	90.3	90.7	91.2	91.3	91.3	91.3
500	65.6	69.9	77.8	80.8	81.2	85.8	88.0	90.2	91.0	91.0	91.0	91.6	92.1	92.2	92.3	92.3
400	65.6	69.9	77.8	80.9	81.3	86.1	88.7	91.1	92.4	92.4	92.5	93.5	94.3	94.8	94.8	94.8
300	65.6	69.9	77.9	81.2	81.5	86.3	88.9	91.3	93.1	93.1	93.3	94.7	95.9	96.5	97.2	97.2
200	65.6	69.9	77.9	81.2	81.5	86.3	88.9	91.4	93.2	93.3	93.6	95.3	96.7	98.0	98.0	98.0
100	65.6	69.9	77.9	81.2	81.5	86.3	88.9	91.4	93.2	93.3	93.6	95.3	96.7	98.0	98.0	98.0

TOTAL NUMBER OF OBSERVATIONS 908

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION  
15621

ALCONBURY RAF UK

73-87

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700

CEILING FEET	VISIBILITY STATUTE MILES																OP (HUNDREDS OF METERS)			
	≥10 >16	≥6 GF90	≥5 GF80	≥4 GF60	≥3 GF48	≥2.5 GF40	≥2 GF32	≥1.5 GF24	≥1 GF20	≥0.75 GF16	≥0.5 GF12	≥0.25 GF10	≥0.15 GF08	≥0.1 GF05	≥0.05 GF04	≥0.025 GF03	20	25	30	35
≥20000	25.2	26.5	28.1	28.6	28.9	29.5	30.1	30.3	30.5	30.6	30.6	30.6	30.6	30.7	30.7	30.8				
18000	29.2	30.7	32.3	33.2	33.6	34.5	35.4	35.6	35.9	36.1	36.1	36.1	36.2	36.2	36.3	36.3				
16000	29.2	30.7	32.3	33.2	33.6	34.5	35.4	35.6	35.9	36.1	36.1	36.1	36.2	36.2	36.3	36.3				
14000	29.5	31.7	32.7	33.6	33.9	34.9	35.8	36.0	36.2	36.4	36.4	36.4	36.4	36.5	36.5	36.6				
12000	29.7	31.2	33.1	34.0	34.3	35.3	36.2	36.4	36.6	36.9	37.0	37.0	37.1	37.1	37.1	37.2				
10000	31.7	33.2	35.5	36.4	36.7	37.8	38.7	38.9	39.2	39.4	39.5	39.5	39.5	39.6	39.6	39.7				
9000	32.3	33.9	36.2	37.1	37.4	39.5	39.4	39.6	39.8	40.0	40.2	40.2	40.3	40.3	40.4	40.4				
8000	35.4	37.0	39.4	40.3	40.6	41.7	42.9	43.1	43.3	43.6	43.7	43.7	43.8	43.8	43.9	43.9				
7000	36.9	38.4	40.6	41.7	42.0	43.1	44.4	44.7	44.9	45.1	45.2	45.2	45.3	45.3	45.4	45.4				
6000	37.4	38.9	41.5	42.4	42.7	43.8	45.1	45.3	45.5	45.8	45.9	45.9	46.0	46.0	46.1	46.1				
5000	39.4	40.9	43.5	44.3	44.7	45.8	47.1	47.3	47.5	47.7	47.9	47.9	48.0	48.0	48.1	48.1				
4500	40.6	42.4	45.4	46.4	46.8	47.9	49.4	49.6	49.8	50.1	50.2	50.2	50.3	50.3	50.4	50.4				
4000	45.3	46.9	50.1	51.0	51.4	52.7	54.3	54.6	54.9	55.1	55.2	55.2	55.3	55.3	55.4	55.4				
3500	45.6	51.3	54.7	55.8	56.1	57.9	59.7	60.0	60.3	60.5	60.6	60.6	60.7	60.7	60.8	60.8				
3000	56.1	58.1	61.8	63.0	63.4	65.1	67.1	67.3	67.7	67.9	68.0	68.0	68.1	68.1	68.2	68.2				
2500	59.5	61.6	65.6	66.8	67.1	69.1	71.4	71.6	71.9	72.2	72.3	72.3	72.4	72.4	72.5	72.5				
2000	62.5	64.6	69.0	71.2	71.7	74.4	76.7	77.1	77.4	77.7	77.8	77.8	77.9	77.9	78.0	78.0				
1800	63.1	65.2	70.0	71.8	72.5	75.5	77.8	78.2	78.5	78.8	78.9	78.9	79.0	79.0	79.1	79.1				
1600	64.8	67.3	72.3	74.1	74.7	78.1	80.6	81.4	81.8	82.1	82.2	82.2	82.3	82.3	82.4	82.4				
1400	66.9	69.5	75.1	77.1	77.9	81.2	83.8	84.6	85.0	85.3	85.4	85.4	85.5	85.5	85.6	85.6				
1200	67.5	70.3	76.1	78.3	79.1	82.9	85.7	86.8	87.2	87.5	87.6	87.6	87.7	87.7	87.8	87.8				
1000	67.5	70.6	76.5	78.7	79.4	83.3	86.0	87.1	87.6	87.8	87.9	87.9	88.0	88.0	88.1	88.1				
900	68.2	71.1	76.9	79.3	80.1	84.0	87.2	88.4	89.2	89.5	89.7	89.7	89.8	89.8	89.9	89.9				
800	68.4	71.3	77.1	79.5	80.3	84.4	87.7	89.1	90.2	90.5	90.6	90.6	90.8	90.8	90.9	90.9				
700	68.4	71.3	77.1	79.5	80.3	84.4	87.7	89.4	90.5	90.9	91.0	91.1	91.2	91.2	91.3	91.3				
600	68.6	71.6	77.6	80.1	80.9	84.9	88.3	90.1	91.3	91.7	91.9	92.0	92.1	92.1	92.2	92.2				
500	68.6	71.6	77.6	80.1	80.9	84.9	88.4	90.4	91.6	92.3	92.7	92.8	93.1	93.2	93.5	93.5				
400	68.6	71.6	77.6	80.1	80.9	84.9	88.4	90.4	92.1	92.8	93.4	93.5	94.2	94.9	95.9	95.9				
300	68.6	71.6	77.6	80.1	80.9	84.9	88.4	90.4	92.3	93.2	93.8	94.8	96.1	97.0	98.6	98.6				
200	68.6	71.6	77.6	80.1	80.9	84.9	88.4	90.4	92.3	93.2	93.8	94.8	96.5	97.7	100.0	100.0				
100	68.6	71.6	77.6	80.1	80.9	84.9	88.4	90.4	92.3	93.2	93.8	94.8	96.5	97.7	100.0	100.0				

TOTAL NUMBER OF OBSERVATIONS 909

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIF WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

135621 ALCONBURY RAF UK

73-82

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1800-2000

CEILING FEET	VISIBILITY STATUTE MILES OR (HUNDREDS OF METERS)															
	≥ 10	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
NO CEILING	26.2	28.6	30.9	31.6	31.8	34.3	35.7	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	36.6
≥ 2000	29.9	32.9	35.8	36.4	36.7	39.2	40.9	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.3	41.8
1800	29.9	32.9	35.8	36.4	36.7	39.2	40.9	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.3	41.8
1600	29.9	32.9	35.8	36.4	36.7	39.2	40.9	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.3	41.8
1400	29.9	32.9	35.8	36.4	36.7	39.2	40.9	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.3	41.8
1200	30.1	33.2	36.1	36.7	37.1	39.5	41.2	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.6	42.1
1000	32.4	35.4	38.7	39.3	39.6	42.1	43.8	43.9	43.9	43.9	43.9	43.9	43.9	43.9	44.2	44.7
800	32.6	35.7	38.9	39.6	39.9	42.4	44.1	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.5	45.0
600	34.9	39.3	41.7	42.4	42.6	45.1	46.8	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.2	47.8
400	35.4	38.8	42.2	42.9	43.3	45.8	47.5	47.8	47.8	47.8	47.8	47.8	47.8	47.8	48.0	48.6
200	35.8	39.2	42.6	43.3	43.7	46.2	47.9	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.4	48.9
100	37.8	41.2	44.6	45.3	45.7	48.2	49.9	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.4	50.9
50	39.7	43.3	47.6	48.6	48.9	51.4	53.2	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.7	54.2
0	42.8	46.6	51.2	52.1	52.5	55.0	56.8	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.4	57.9
1500	46.1	49.9	54.7	55.8	56.3	58.9	60.9	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.4	62.0
1300	49.9	54.5	59.6	61.7	61.2	63.9	65.9	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.4	67.0
1100	52.0	56.6	61.8	62.9	63.4	66.3	68.3	68.6	68.7	68.7	68.7	68.7	68.7	68.7	68.9	69.6
900	55.7	60.8	67.2	68.7	69.2	73.0	75.0	75.3	75.5	75.5	75.5	75.5	75.5	75.5	75.9	76.4
700	56.3	61.4	67.9	69.5	70.0	74.1	76.1	76.3	76.6	76.6	76.6	76.6	76.6	76.6	76.7	77.5
500	61.1	65.8	73.1	75.1	75.7	81.1	82.1	82.4	82.9	82.9	82.9	82.9	82.9	82.9	83.3	83.8
300	62.0	67.6	75.1	77.5	78.0	83.0	85.1	85.4	86.1	86.1	86.1	86.1	86.1	86.1	86.4	87.0
100	63.0	68.7	76.2	78.8	79.5	84.7	87.2	87.5	88.2	88.2	88.2	88.2	88.2	88.2	88.6	89.1
50	63.2	68.8	76.3	78.9	79.6	85.0	87.6	87.9	88.6	88.6	88.6	88.6	88.6	88.6	88.9	89.5
0	63.2	68.9	76.6	79.2	79.9	85.3	87.9	88.2	88.8	88.8	88.8	88.8	88.8	88.8	89.2	89.7
1500	63.3	69.1	76.7	79.5	80.1	85.5	88.6	88.9	89.7	89.7	89.7	89.7	89.7	89.7	90.1	90.7
1300	63.4	69.3	77.4	82.1	80.8	86.2	89.2	90.0	90.8	90.8	90.8	90.8	90.8	90.8	91.3	91.8
1100	63.7	69.6	77.6	80.5	81.2	86.6	89.7	90.8	91.7	91.7	91.7	91.7	91.7	91.7	92.0	92.9
900	63.7	69.6	77.6	80.5	81.2	86.6	89.7	90.8	91.7	91.7	91.7	91.7	91.7	91.7	92.0	92.9
700	63.7	69.6	77.6	80.5	81.2	86.6	89.7	90.8	91.7	91.7	91.7	91.7	91.7	91.7	92.0	92.9
500	63.7	69.6	77.6	80.5	81.2	86.6	89.7	90.8	91.7	91.7	91.7	91.7	91.7	91.7	92.0	92.9
300	63.7	69.6	77.6	80.5	81.2	86.6	89.7	90.8	91.7	91.7	91.7	91.7	91.7	91.7	92.0	92.9
100	63.7	69.6	77.6	80.5	81.2	86.6	89.7	90.8	91.7	91.7	91.7	91.7	91.7	91.7	92.0	92.9
0	63.7	69.6	77.6	80.5	81.2	86.6	89.7	90.8	91.7	91.7	91.7	91.7	91.7	91.7	92.0	92.9

TOTAL NUMBER OF OBSERVATIONS 760

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

75621

ALCONBURY RAF UK

73-87

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

21-0-2300  
HOURS 151

CEILING FEET	VISIBILITY STATUTE MILES																OR (HUNDREDS OF METERS)													
	>10	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	2516	24	23	22	21	20	19	18	17	16	15	14	13	12
20000	25.1	25.0	32.1	32.6	32.7	34.4	35.1	35.6	36.1	36.1	36.1	36.8	36.8	37.1	37.8															
18000	27.3	30.4	34.5	35.2	35.5	37.2	37.9	38.5	39.0	39.2	39.2	39.7	39.7	39.9	40.6															
16000	27.3	30.4	34.5	35.2	35.5	37.2	37.9	38.5	39.0	39.2	39.2	39.7	39.7	39.9	40.6															
14000	27.3	30.4	34.5	35.2	35.5	37.2	37.9	38.5	39.0	39.2	39.2	39.7	39.7	39.9	40.6															
12000	27.4	30.6	34.6	35.3	35.6	37.4	38.0	38.6	39.1	39.1	39.1	39.8	39.8	40.1	40.8															
10000	29.2	32.3	36.4	37.1	37.5	39.3	40.2	40.8	41.3	41.3	41.3	42.0	42.0	42.3	42.9															
9000	30.8	34.0	38.0	38.7	39.1	40.9	41.8	42.4	42.9	42.9	42.9	43.6	43.6	43.9	44.6															
8000	33.0	36.3	40.8	41.8	42.3	44.0	45.0	45.5	46.1	46.1	46.1	46.7	46.7	47.0	47.7															
7000	33.3	37.2	41.7	43.1	43.5	45.2	46.2	46.7	47.3	47.3	47.3	48.0	48.0	48.2	48.9															
6000	34.4	37.8	42.3	43.6	44.0	45.8	46.7	47.3	47.8	47.8	47.8	48.5	48.5	48.8	49.5															
5000	37.2	40.8	45.2	46.6	47.0	48.8	49.7	50.3	50.8	50.8	50.8	51.5	51.5	51.8	52.4															
4500	39.0	42.7	47.8	49.2	49.6	51.4	52.3	52.9	53.4	53.4	53.4	54.1	54.1	54.3	55.0															
4000	42.9	46.9	52.2	53.5	53.9	55.7	57.2	57.7	58.3	58.3	58.3	59.0	59.0	59.2	59.9															
3500	45.8	49.9	55.6	56.9	57.3	59.5	61.0	61.5	62.1	62.1	62.1	62.8	62.8	63.0	63.7															
3000	47.4	51.6	58.0	59.6	60.1	62.4	64.0	64.5	65.1	65.1	65.1	65.8	65.8	66.0	66.7															
2500	50.4	54.6	61.4	63.3	63.7	66.3	67.9	68.5	69.0	69.0	69.0	69.7	69.7	70.0	70.7															
2000	54.5	59.0	66.6	68.6	69.0	71.6	73.6	74.2	74.7	74.7	74.7	75.4	75.4	75.7	76.4															
1800	54.8	59.2	66.8	68.9	69.3	72.0	74.3	75.0	75.5	75.5	75.5	76.2	76.2	76.5	77.2															
1600	57.2	62.1	70.5	73.0	73.4	76.4	78.8	79.5	80.2	80.2	80.2	80.8	80.8	81.1	81.8															
1400	59.1	64.3	72.8	75.4	76.1	79.0	82.7	83.4	84.1	84.1	84.1	84.8	84.8	85.1	85.7															
1200	60.5	65.9	75.1	78.1	78.9	82.9	85.7	86.4	87.1	87.1	87.1	87.9	87.9	88.2	88.9															
1000	61.0	66.6	75.8	78.8	79.6	83.6	86.4	87.1	87.8	87.8	87.8	88.6	88.6	88.9	89.5															
900	61.3	67.0	76.4	79.5	80.3	84.4	87.5	88.2	88.9	88.9	88.9	89.7	89.7	89.9	90.6															
800	61.3	67.1	76.6	79.8	80.6	84.6	88.2	88.9	89.7	89.7	89.7	90.5	90.5	90.8	91.4															
700	61.3	67.4	76.9	80.0	80.8	84.9	88.6	89.5	90.5	90.5	90.5	91.3	91.3	91.7	92.4															
600	61.4	67.5	77.2	80.3	81.1	85.2	88.9	89.9	91.2	91.2	91.2	92.0	92.0	92.4	93.1															
500	61.4	67.5	77.2	80.3	81.1	85.3	89.3	90.6	91.8	91.8	91.8	92.1	92.8	93.1	93.3															
400	61.5	67.7	77.3	80.4	81.3	85.6	89.7	91.2	93.3	93.3	93.3	93.8	94.4	95.2	95.5															
300	61.5	67.7	77.3	80.4	81.3	85.6	89.7	91.2	93.9	93.9	93.9	94.3	95.0	95.9	96.2															
200	61.5	67.7	77.3	80.4	81.3	85.6	89.7	91.2	93.9	93.9	93.9	94.3	95.0	95.9	96.5															
100	61.5	67.7	77.3	80.4	81.3	85.6	89.7	91.2	93.9	93.9	93.9	94.3	95.0	95.9	96.5															

TOTAL NUMBER OF OBSERVATIONS 736

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOSA CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION 75521 ALCONBURY RAF UK

73-82

YEARS

DATE

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL  
HOURS

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	≥6	≥5	≥4	≥3	≥2.5	≥2	≥1.5	≥1	≥0.75	≥0.5	≥0.25	≥0.15	≥0.1	≥0.05	≥0
≥1600	GE90	GE80	GE60	GE40	GE20	GE10	GE5	GE2.5	GE1.5	GE0.75	GE0.5	GE0.25	GE0.15	GE0.1	GE0.05	GE0
15000	23.7	25.4	28.5	29.2	29.4	30.7	31.4	31.6	31.7	31.8	31.8	31.9	32.0	32.1	32.4	
14000	27.3	29.2	32.5	33.5	33.6	35.2	35.8	36.1	36.2	36.2	36.3	36.4	36.5	36.6	37.1	
13000	27.4	29.3	32.6	33.6	33.7	35.2	35.9	36.2	36.3	36.4	36.4	36.5	36.6	36.7	37.2	
12000	27.4	29.3	32.6	33.6	33.7	35.2	35.9	36.2	36.3	36.4	36.4	36.5	36.6	36.7	37.2	
11000	27.4	29.4	32.7	33.6	33.8	35.2	36.0	36.2	36.4	36.4	36.5	36.6	36.7	36.8	37.3	
10000	27.6	29.6	33.0	33.9	34.1	35.5	36.3	36.5	36.7	36.7	36.8	36.9	37.0	37.1	37.6	
9000	29.1	31.1	34.7	35.6	35.8	37.3	38.1	38.3	38.5	38.5	38.6	38.7	38.8	38.9	39.4	
8000	30.0	31.9	35.5	36.5	36.7	38.2	39.0	39.2	39.4	39.4	39.5	39.6	39.7	39.8	40.3	
7000	32.7	34.8	38.6	39.7	40.0	41.6	42.5	42.7	42.9	43.0	43.0	43.2	43.3	43.4	43.9	
6000	33.5	35.6	39.4	40.7	40.9	42.5	43.4	43.7	43.9	44.0	44.0	44.1	44.2	44.3	44.9	
5000	33.9	36.0	39.9	41.1	41.4	43.0	44.0	44.2	44.4	44.5	44.5	44.7	44.8	44.9	45.4	
4500	36.1	38.3	42.2	43.5	43.7	45.4	46.3	46.7	46.9	46.9	47.0	47.1	47.2	47.3	47.9	
4000	37.8	40.1	44.3	45.7	46.0	47.7	48.7	49.0	49.2	49.3	49.3	49.5	49.6	49.8	50.2	
3500	41.8	44.3	48.8	50.3	50.6	52.5	53.7	54.0	54.3	54.4	54.5	54.6	54.7	54.9	55.4	
3000	45.3	47.9	52.7	54.3	54.6	56.8	58.1	58.4	58.7	58.8	58.8	59.0	59.1	59.3	59.8	
2500	49.1	52.1	57.4	59.1	59.4	61.7	63.0	63.4	63.8	63.9	63.9	64.2	64.3	64.5	64.9	
2000	52.2	55.3	61.0	62.8	63.2	65.7	67.2	67.6	68.1	68.1	68.2	68.4	68.6	68.7	69.2	
1500	55.8	59.1	65.7	67.9	68.3	71.5	73.1	73.6	74.0	74.1	74.2	74.4	74.6	74.8	75.3	
1000	56.3	59.7	66.5	68.7	69.1	72.4	74.1	74.6	75.1	75.2	75.3	75.5	75.6	75.8	76.3	
900	58.9	62.5	69.8	72.2	72.7	76.2	77.9	78.5	79.1	79.3	79.4	79.6	79.7	79.9	80.4	
800	61.1	64.9	72.6	75.2	75.8	79.6	81.5	82.1	82.7	82.9	83.0	83.2	83.4	83.5	84.0	
700	62.4	66.4	74.4	77.2	77.8	81.9	83.9	84.6	85.2	85.4	85.5	85.8	85.9	86.2	86.6	
600	62.8	66.8	75.1	77.9	78.5	82.6	84.7	85.4	86.1	86.3	86.4	86.7	86.8	87.1	87.5	
500	63.1	67.2	75.8	78.7	79.3	83.6	85.8	86.6	87.4	87.6	87.7	88.0	88.1	88.4	88.8	
400	63.3	67.4	76.1	79.0	79.7	84.1	86.5	87.4	88.3	88.5	88.6	88.9	89.1	89.3	89.8	
300	63.4	67.6	76.4	79.3	80.0	84.4	87.0	88.1	89.0	89.3	89.4	89.8	90.0	90.2	90.7	
200	63.5	67.8	76.8	79.8	80.6	85.1	87.8	89.0	90.1	90.4	90.5	90.9	91.2	91.4	92.1	
100	63.6	67.9	76.9	80.0	80.8	85.6	88.5	89.9	91.1	91.5	91.8	92.2	92.7	92.9	93.7	
50	63.6	68.0	77.0	80.1	80.9	85.7	88.8	90.3	91.9	92.3	92.7	93.2	94.1	94.8	96.3	
20	63.6	68.0	77.0	80.1	80.9	85.7	88.8	90.4	92.3	92.8	93.3	94.1	95.4	96.3	98.9	
10	63.6	68.0	77.0	80.1	80.9	85.7	88.8	90.4	92.3	92.8	93.3	94.2	95.6	96.7	100.0	
5	63.6	68.0	77.0	80.1	80.9	85.7	88.8	90.4	92.3	92.8	93.3	94.2	95.6	96.7	100.0	

TOTAL NUMBER OF OBSERVATIONS 6227

USAF ETAC 1-70 101-84 D-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

75621 ALCONBURY RAF UK

73-87

ALL

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL  
HOURS

CEILING FEET	VISIBILITY STATUTE MILES															
	≥10	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12
OR (HUNDREDS OF METERS)	≥16	GE90	GE80	GE60	GE40	GE32	GE24	GE20	GE16	GE12	GE10	GE08	GE05	GE04	GE03	GE02
NO FLOORING		27.3	28.4	31.8	31.6	31.7	32.6	33.1	33.7	33.5	33.6	33.6	33.7	33.9	34.7	34.3
2 20000		32.9	34.2	37.2	38.1	38.3	39.3	39.8	40.1	40.4	40.4	40.5	40.6	40.8	40.9	41.3
2 18000		33.0	34.3	37.3	38.2	38.4	39.4	40.0	40.2	40.5	40.6	40.7	40.8	40.9	41.0	41.4
2 16000		33.0	34.3	37.3	38.2	38.4	39.4	40.0	40.2	40.6	40.6	40.7	40.8	40.9	41.1	41.4
2 14000		33.1	34.4	37.4	38.3	38.5	39.5	40.1	40.3	40.7	40.7	40.8	40.9	41.0	41.1	41.5
2 12000		33.6	34.9	37.9	38.8	39.0	40.0	40.6	40.9	41.2	41.2	41.3	41.4	41.5	41.7	42.0
2 10000		35.7	37.7	40.2	41.2	41.4	42.5	43.1	43.4	43.7	43.7	43.8	43.9	44.1	44.2	44.6
2 9000		36.7	38.1	41.4	42.3	42.6	43.6	44.3	44.5	44.9	44.9	45.0	45.1	45.2	45.4	45.8
2 8000		40.4	41.9	45.5	46.6	46.8	48.0	48.7	49.7	49.3	49.4	49.5	49.6	49.7	49.9	50.3
2 7000		41.3	42.8	46.5	47.6	47.8	49.1	49.8	50.1	50.4	50.5	50.6	50.7	50.9	51.0	51.4
2 6000		41.6	43.2	46.9	48.7	48.3	49.5	50.2	50.5	50.9	51.0	51.0	51.1	51.3	51.4	51.8
2 5000		43.9	45.6	49.5	51.8	51.7	52.3	53.1	53.4	53.8	53.9	54.0	54.1	54.3	54.4	54.8
2 4500		46.7	48.4	52.7	53.9	54.2	55.6	56.4	56.7	57.2	57.2	57.3	57.4	57.7	57.7	58.1
2 4000		51.5	53.4	58.1	59.4	59.8	61.3	62.2	62.5	63.0	63.1	63.1	63.3	63.4	63.6	64.0
2 3500		55.7	57.7	62.7	64.2	64.5	66.1	67.1	67.5	68.0	68.0	68.1	68.2	68.4	68.6	69.0
2 3000		59.8	62.0	67.4	68.9	69.3	71.0	72.1	72.5	73.0	73.1	73.2	73.3	73.5	73.6	74.1
2 2500		62.2	64.5	71.2	71.9	72.3	74.2	75.3	75.7	76.3	76.4	76.4	76.6	76.8	76.9	77.3
2 2000		65.3	67.8	74.1	75.9	76.4	78.4	79.6	80.1	80.7	80.8	80.9	81.0	81.2	81.4	81.8
2 1800		66.0	68.5	74.8	76.7	77.2	79.3	80.5	81.7	81.6	81.7	81.8	81.9	82.1	82.3	82.7
2 1600		68.1	70.8	77.7	79.7	80.2	82.4	83.8	84.3	84.9	85.0	85.1	85.3	85.5	85.6	86.0
2 1400		69.9	72.7	80.0	82.2	82.7	85.2	86.6	87.2	87.9	88.0	88.1	88.3	88.5	88.6	89.0
2 1200		70.8	73.8	81.4	83.8	84.3	86.9	88.5	89.1	89.8	90.0	90.1	90.2	90.5	90.6	91.0
2 1000		71.2	74.2	82.0	84.4	84.9	87.6	89.2	89.8	90.6	90.7	90.9	91.0	91.2	91.4	91.8
2 900		71.5	74.6	82.5	85.1	85.6	88.4	90.1	90.7	91.6	91.7	91.8	92.0	92.2	92.4	92.8
2 800		71.7	74.9	83.0	85.6	86.2	89.1	90.9	91.6	92.5	92.7	92.8	93.0	93.2	93.4	93.8
2 700		71.8	75.0	83.3	86.0	86.6	89.6	91.6	92.4	93.4	93.6	93.7	93.9	94.2	94.3	94.8
2 600		71.9	75.1	83.5	86.3	87.0	90.2	92.3	93.1	94.3	94.5	94.6	94.9	95.1	95.3	95.8
2 500		72.0	75.2	83.7	86.6	87.2	90.5	92.8	93.8	95.1	95.4	95.6	95.8	96.2	96.4	96.9
2 400		72.0	75.2	83.7	86.6	87.3	90.7	93.1	94.2	95.7	96.0	96.3	96.6	97.1	97.4	98.2
2 300		72.0	75.2	83.7	86.7	87.3	90.7	93.1	94.3	95.9	96.2	96.6	97.0	97.6	98.1	99.3
2 200		72.0	75.2	83.7	86.7	87.3	90.7	93.1	94.3	95.9	96.3	96.6	97.1	97.8	98.4	99.9
2 100		72.0	75.2	83.7	86.7	87.3	90.7	93.1	94.3	95.9	96.3	96.6	97.1	97.8	98.4	99.9
2 00		72.0	75.2	83.7	86.7	87.3	90.7	93.1	94.3	95.9	96.3	96.6	97.1	97.8	98.4	99.9

TOTAL NUMBER OF OBSERVATIONS 73531

USAF ETAC 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

U S AIR FORCE  
ENVIRONMENTAL TECHNICAL  
APPLICATIONS CENTER

PART E

PSYCHROMETRIC SUMMARIES

In this section are presented various summaries of dry- and wet-bulb temperatures, dew points, and relative humidity. The order and manner of presentations follows:

1. Cumulative percentage frequency of occurrence - derived from daily observations and presented by month and annual for all years combined. These tabulations provide the cumulative percentage frequency to tenths of temperature by 5-degree Fahrenheit increments, plus mean temperature, standard deviations, and total number of observations in three separate tables as follows:

- a. Daily maximum temperatures
- b. Daily minimum temperatures
- c. Daily mean temperatures

NOTE: Beginning in January 1964, daily maximum and minimum temperatures are routinely selected from hourly observations recorded on surface observing forms or from automated data collections for all Air Force operated stations. For those stations observing less than 24 hours per day, and where maximum and minimum temperatures are required but not recorded, these are also selected from hourly data from as early as January 1949 and later. Please refer to notations on summary pages and Station History for further information on reporting practices of individual stations.

2. Extreme values - derived from daily observations with the extreme value selected for each year and month of record available. An annual (ALL MONTHS) value is selected when all months for a year have valid extremes. Means and standard deviations are computed for months and annual when four or more values are present for any column. Two tables of daily extremes are prepared:

- a. Extreme maximum temperature
- b. Extreme minimum temperature

NOTE: The following symbols are used in the extreme data blocks:

- (1) \* indicates the extreme was selected from a month with one or more days missing.
- (2) # indicates the extreme was selected from a month in which hourly temperatures were available for less than 24 hours for at least one day in the month.

Values for means and standard deviations do not include measurements for incomplete months.

Continued on Reverse

3. Bivariate percentage frequency distribution and computations of dry-bulb versus wet-bulb temperature. This tabulation is derived from hourly observations and is presented by month and annual, all hours and years combined. The following information is provided:

a. The main body of the summary consists of a bivariate percentage frequency distribution of wet-bulb depression in 17 classes spread horizontally; by 2-degree intervals of dry-bulb temperature spread vertically. Also provided for each of the dry-bulb intervals is the percentage of observations with dry-bulb and wet-bulb temperature combined; and again for dry-bulb, wet-bulb, and dew-point temperatures separately. Total observations for these four items is also provided in two lines at end of each tabulation table, which may be continued on several pages.

NOTE: A percentage frequency in this table of ".0" represents one or more occurrences amounting to less than .05 percent.

b. Statistical data for the individual elements of relative humidity, dry-bulb, wet-bulb, and dew-point temperatures are shown in the section at the bottom left of the forms. These consist of the sum of squares ( $\sum X^2$ ), sums of values ( $\sum X$ ), means ( $\bar{X}$ ), and standard deviations ( $\sigma_x$ ). The number of observations used in the computation for each element is also shown.

c. At the lower right of the form are given the mean number of hours of occurrence for six ranges of dry-bulb, wet-bulb, and dew-point temperatures, and total number of hours possible in the period represented. Mean number of hours is shown to tenths and indicates mean number of hours per year in the annual summary, or mean number of hours per month in the tabulation by month.

NOTE: Wet-bulb temperature usually was not reported prior to 1946. Relative humidity usually was not reported prior to 1949, nor subsequent to June 1958; and was computed by machine methods for observations recorded during these periods. All values of dew-point temperature and relative humidity are with respect to water, unless otherwise indicated.

4. Means and standard deviations - These tabulations are derived from hourly observations and present the mean, standard deviation, and total number of observations for the eight standard 3-hour groups, by month and annual and again at the bottom for all hours combined. Records for all years combined are presented in the following three tables; DRY-BULB TEMPERATURE, WET-BULB TEMPERATURE, and DEW-POINT TEMPERATURE.
5. Cumulative percentage frequency of occurrence of relative humidity - This summary is derived from hourly observations and presents the cumulative percentage frequency of occurrence of relative humidity by increments of 10% classes, plus the mean relative humidity and total number of observations in two tables.

a. Table 1 is prepared by month and annual, all years combined, with month being the vertical argument.

b. Table 2 is prepared by month by standard 3-hour groups, with the hour groups being the vertical argument and a separate page for each month. All years are also combined for this summary.

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC  
035621 ALCONBURY RAF UK  
STATION

55-83

YEARS

# DAILY TEMPERATURES

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM DAILY OBSERVATIONS)

MAXIMUM

TEMP °F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
90						.4	.5	.3					.1
85						1.3	2.3	1.3					.4
80					.2	4.3	5.5	5.7	.8				1.3
75			.1	.1	2.1	12.1	18.2	15.6	4.8	1.0			4.4
70			.5	.8	9.5	29.2	40.0	41.0	20.2	2.6			11.7
65			1.2	5.3	22.4	55.2	72.1	73.8	49.9	11.9	.1		23.8
60		.5	4.6	17.1	52.6	85.5	95.7	97.7	85.5	36.7	3.3	.1	39.3
55	1.3	2.9	16.2	43.4	81.3	98.1	99.7	99.9	97.7	70.4	18.5	5.1	52.3
50	16.8	21.2	45.0	72.9	96.7	99.9	100.0	100.0	99.9	93.1	46.7	23.3	67.6
45	43.1	45.2	71.5	91.1	100.0	100.0			100.0	99.6	76.5	47.8	81.0
40	64.8	70.7	90.3	98.9						100.0	94.2	73.2	90.9
35	86.5	92.5	99.3	100.0							99.4	92.7	97.5
30	97.6	99.9	100.0								99.9	99.0	99.7
25	99.6	100.0									100.0	100.0	100.0
20	99.9												100.0
15	100.0												100.0
MEAN	42.6	43.7	48.4	53.3	60.2	66.3	68.7	68.9	65.0	57.5	48.8	44.0	55.6
S D	6.741	6.338	6.571	6.472	6.480	6.898	6.344	5.821	5.465	5.831	5.845	6.534	11.522
TOTAL OBS	829	750	827	800	829	775	775	775	768	810	796	831	9565



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC  
035621 ALCONBURY RAF UK  
STATION STATION NAME

# DAILY TEMPERATURES

55-83

YEARS

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM DAILY OBSERVATIONS)

MINIMUM

TEMP °F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
70					.1	.1	.1	.1	.1				.1
65					.5	.5	.6	1.0	.5				.2
60				.1	.7	2.7	9.8	9.7	3.3	.6			2.2
55				.5	2.1	17.5	42.5	41.9	20.3	5.7	1.0	.2	10.7
50	.2	.5	1.6	4.4	17.4	56.8	85.2	81.8	58.1	26.5	6.0	1.8	27.7
45	6.4	5.3	7.7	19.4	55.4	89.8	98.8	97.9	87.1	55.7	19.1	9.1	45.4
40	21.0	19.6	28.3	53.3	86.4	99.0	99.9	100.0	98.6	82.6	45.5	24.8	62.8
35	52.4	47.3	66.7	83.9	98.2	100.0	100.0		99.9	96.9	76.9	57.9	81.5
33	63.8	62.1	78.7	92.3	99.4				100.0	98.8	85.9	70.8	87.5
30	79.7	81.3	89.7	98.0	100.0					99.9	94.3	80.5	93.9
25	91.9	95.6	97.1	99.8						100.0	98.7	94.7	98.1
20	96.9	98.9	99.6	100.0							100.0	98.4	99.5
15	99.2	99.9	99.9									100.0	99.9
10	99.5	100.0	100.0										100.0
5	99.9												100.0
0	100.0												100.0
MEAN	34.4	34.4	36.6	39.9	45.1	50.2	53.6	53.5	50.3	45.4	39.1	35.4	43.2
S D	7.030	6.035	5.939	5.450	4.880	4.629	4.325	4.568	4.988	5.843	6.381	6.713	9.029
TOTAL OBS	829	750	827	800	829	775	775	775	768	810	796	831	9565

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC  
 35621 ALCONBURY RAF UK  
 STATION STATION NAME

# DAILY TEMPERATURES

55-83

YEARS

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM DAILY OBSERVATIONS)

MEAN

TEMP °F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
80						.1							.0
75						.8	.8	.6	.1				.2
70					.1	2.7	5.0	4.4	.5				1.0
65					1.3	10.7	23.9	22.6	7.3				5.4
60			.1	.6	9.4	39.6	63.2	63.0	34.2	6.8	.3		17.7
55		.3	1.8	7.9	34.9	78.8	95.7	96.9	78.4	29.5	3.8	.5	35.0
50	3.4	3.5	11.0	32.5	76.8	98.2	99.9	100.0	96.9	65.9	18.1	6.7	50.5
45	20.5	20.0	38.8	65.3	95.7	99.9	100.0		99.9	91.2	46.5	25.5	66.6
40	49.2	48.9	72.7	91.3	99.9	100.0			100.0	99.3	79.9	54.3	82.8
35	73.6	77.5	92.9	99.8	100.0					100.0	96.2	81.6	93.4
30	91.6	96.9	99.3	100.0							99.4	94.7	98.5
25	98.1	99.5	99.9								100.0	99.4	99.7
20	99.6	100.0	100.0									100.0	100.0
15	99.8												100.0
10	100.0												100.0
MEAN	38.8	39.3	42.7	46.9	52.9	58.5	61.4	61.4	57.9	51.7	44.2	40.1	49.7
S.D.	6.604	5.827	5.569	5.317	4.908	4.985	4.673	4.337	4.497	5.258	5.766	6.327	9.917
TOTAL OBS	829	750	827	800	829	775	775	775	768	810	796	831	9565

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# EXTREME VALUES

MAXIMUM TEMPERATURE

(FROM DAILY OBSERVATIONS)

035621 ALCONBURY RAF UK  
STATION STATION NAME

55-83

YEARS

## WHOLE DEGREES FAHRENHEIT

MONTH YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
55									*	71	67	62	58
56	*	52											
57		*	56*	66*	65	72	90	85	77	69	66	54	56
58		55	58	58	70	75	74	79	78	78	63	55	54
59		54	63	62	66	79	83	91	84	82	76	58	55
60		54	60	59	64	75	83	71	73	73	65	60	55
61		52	59	69	65	73	84	85	86	81	70	58	57
62		54	56	56	67	67	77	79	72	75	67	56	56
63		41	42	57	65	80	78	80	73	75	69	61	50
64		52	55	53	68	78	73	77	89	76	66	57	56
65	*	52	48	71	62	80	74	72	76	71	70	59	56
66		54	57	55	69	77	80	74	78	72	68	58	54
67		54	55	65	67	75	72	83	77	73	69	62	54
68		54	45	77	75	72	91	88	81	77	68	57	52
69		56	49	57	72	74	77	90	83	73	77	65	52
70		49	54	61	61	72	81	88	81	79	70	63	53
71		51	53	55	71	71	73	82	75	77	73	62	59
72		51	51	66	60	66	69*	66		*	62	59	57
73		51	53	64	62	73	80	78	86	82	69	59	53
74		59	53	62	66	68	73	73	77	69	55	57	62
75		59	55	55	66	69	82	84	91	73	62	55	53
76		53	59	59	66	75	93	93	84	73	68	55	46
77		53	51	62	64	73	73	80	77	73	68	62	57
78		51	53	60	55	78	78	73	75	77	75	62	57
79		46	46	55	69*	78*	75	80	77	75	66	57*	57
80	*	48	54	55	70	72	81*	79	77	73	66*	61*	55
81	*	52	55	63*	66*	70	73*	81	79	75*	64*	61*	50
82	*	52	55	61	64	77	82	82	82*	75*	63*	63	57
83		57*	50	57	64	70							
MEAN	52.5	53.6	60.5	65.9	73.6	78.8	81.2	79.5	75.3	68.1	58.9	55.0	84.2
SD	3.824	4.866	5.680	4.232	3.904	5.738	6.264	5.026	3.648	4.785	2.968	3.210	5.050
TOTAL OBS	829	750	827	800	829	775	775	775	768	810	796	831	9565

NOTES \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-5 (OLA)

# (AT LEAST ONE DAY LESS THAN 24 OBS)

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# EXTREME VALUES

MINIMUM TEMPERATURE

(FROM DAILY OBSERVATIONS)

035621 ALCONBURY RAF UK  
STATION STATION NAME

55-83 YEARS

WHOLE DEGREES FAHRENHEIT

YEAR	MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
55										* 42	30	28	25	
56	*	26												
57			27*	34*	38	22	42	50	46	37	35	29	25	
58		18	25	23	26	37	44	45	47	39	37	31	29	18
59		19	29	35	36	35	44	48	45	43	35	23	30	19
60		23	26	29	32	39	45	45	46	41	35	32	29	23
61		26	34	30	35	35	43	45	46	44	31	24	18	18
62		27	25	21	32	34	35	45	44	40	30	24	17	17
63		5	14	24	32	35	45	42	43	40	29	32	16	5
64		18	20	24	33	39	40	46	43	38	32	21	18	18
65		26	25	11	27	33	42	38	46	43	34	23	21	11
66		15	28	24	31	35	36	45	43	41	35	30	27	15
67		23	29	31	26	31	41	46	44	39	37	28	24	23
68		17	21	26	24	36	45	46	44	42	42	30	24	17
69	*	30	15	27	30	39	37	48	44	36	42	26	28	15
70		21	24	15	26	42	42	46	44	44	37	28	26	15
71		24	28	24	33	35	42	44	46	44	35	28	33	24
72		17	30	30	33	39	42*	50		*	35	30	26	
73	*	23	21	28	28	37	41	42	46	42	28	21	19	19
74		21	28	26	35	35	41	44	44	33	33	30	35	21
75		33	24	30	28	37	39	48	44	39	33	26	26	24
76		24	28	26	30	37	42	48	46	44	37	32	21	21
77	*	26	28	30	28	33	41	46	46	44	41	28	28	26
78		24	17	30	28	39	42	44	46	44	37	21	21	17
79	*	17	24	30	32*	32*	44	48	44	37	36	27*	30	17
80	*	23	28	27	32	32	45*	45	46	48	34*	32*	28	* 23
81	*	28	25	34*	30*	34	43*	46	45	45*	34*	34*	19	* 19
82	*	1	19	28	23	32	48	46	48*	43*	39*	25	25	* 1
83		28*	31	30	32	39								
MEAN		22.4	24.8	26.7	30.1	35.9	41.9	45.4	45.0	41.1	35.2	27.2	24.8	18.3
S D		5.996	4.873	5.238	3.511	2.848	2.948	2.537	1.338	3.443	3.635	3.583	5.067	4.879
TOTAL OBS		829	750	827	800	829	775	775	775	768	810	796	831	9565

NOTES \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-5 (OEA)

8 (AT LEAST ONE DAY LESS THAN 24 OBS)

## PSYCHROMETRIC SUMMARY

255421 ALCONBURY RAF MA

74-77, 79, 82-83

**YEARS**



PAGE 1

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
54/ 53			1.9	.5														10	10																
52/ 51			3.1	.7														16	16																
50/ 49			3.8	1.0														21	21	10															
48/ 47	.2	1.4	8.6	.5	.2													46	46	19	5														
46/ 45	.5	4.3	7.9	.2	.7													54	54	71	15														
44/ 43	.2	4.5	2.6	1.4														37	37	72	21														
42/ 41	1.0	5.3	3.3	1.2														45	45	45	43														
40/ 39	.5	3.1	5.7	.2														40	40	33	61														
38/ 37	1.2	5.0	3.6															41	41	41	51														
36/ 35	1.2	5.5	1.0															32	32	53	35														
34/ 33	.5	4.3	1.7															28	28	38	30														
32/ 31		1.9	1.2															13	13	26	34														
30/ 29	.2	3.6																12	12	19	47														
28/ 27	.2	2.6	.5															18	18	13	27														
26/ 25		.2																1	1	8	18														
24/ 23		.5																2	2	1	12														
22/ 21	.5																	2	2	4	6														
20/ 19	.2																	1	1	1	5														
18/ 17		.2																1	1	1	5														
16/ 15																					1														
14/ 13																																			
12/ 11																																			
10/ 9		.2																1	1																
8/ 7			.2																																
6/ 5	.2																	1	1																
4/ 3																		1	1	2															
TOTAL	6.5	91.9	45.2	5.7	.7													418		418															

Element (X)	2x <sup>2</sup>	2x	x	x <sup>2</sup>	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	2555144	33058	79.1	9.81	418	≤ 0 F	≤ 32 F	≤ 47 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Dry Bulb	714753	17019	40.7	7.21	418		17.7					93
Wet Bulb	626257	15941	38.1	6.593	418		16.7					93
Dew Point	518943	14439	34.5	6.956	418		34.0					93

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/HAC

# PSYCHROMETRIC SUMMARY

035621 ALCONBURY RAF UK

74-83

YEARS

JAN  
MONTH

PAGE 1

0300-0500  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																							TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point						
56/ 55				.1														1	1								
54/ 53			1.9	.1														15	15								
52/ 51		.4	1.5															14	14	5							
50/ 49			.9	.1														8	8	14	2						
48/ 47	.3	.9	5.0	.4	.1													50	50	18	6						
46/ 45	.7	6.5	5.3	.1														93	93	54	30						
44/ 43	.5	2.6	3.5	1.1														57	57	74	40						
42/ 41	1.1	5.7	2.8	1.1														79	79	70	63						
40/ 39	.4	5.8	3.6	.7														74	74	53	67						
38/ 37	1.6	3.9	5.7															78	78	85	79						
36/ 35	.5	5.0	4.6															75	75	66	46						
34/ 33	.4	3.8	3.6															58	58	174	54						
32/ 31		2.7	1.6															32	32	61	41						
30/ 29	.1	2.1	1.5															35	35	39	74						
28/ 27	.5	4.9	.9															47	47	42	96						
26/ 25		1.3	.3															12	12	29	47						
24/ 23	.1																	1	1	13	33						
22/ 21	.3																	2	2	4	15						
20/ 19	.4																	3	3	3	22						
18/ 17		.3																2	2	2	15						
16/ 15		.1																1	1								
14/ 13																				1							
12/ 11																					6						
10/ 9		.1																1	1								
8/ 7		.4																4	4	2	1						
6/ 5	.1																			3							
4/ 3																					1						
2/ 1																					4						
0/ -1																											
TOTAL	7.14	7.44	2.3	3.2	.1													742	742	742	742						

FORM 0-26-5 (OL A) REVISIONS PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC

## PSYCHROMETRIC SUMMARY

74-83

**YEARS**

     JAN  
MONTH

PAGE 1 0600-0800  
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																														TOTAL	TOTAL		
	0	1	2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	= 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point												
56/ 55				.1	.1														2	2														
54/ 53			.5	1.7	.4														21	21	3													
52/ 51			.2	1.5	.1														15	15	6	3												
50/ 49				1.7	.2														16	16	15	3												
48/ 47	.4	1.2	3.9	.7															51	51	21	6												
46/ 45	.7	5.6	5.5	.9															100	100	69	40												
44/ 43	.2	2.1	2.9	.5															47	47	52	31												
42/ 41	.6	5.0	3.8	.5															81	81	89	70												
4 / 39	.5	5.5	3.3																76	76	53	03												
26/ 37	1.6	4.3	3.4																76	76	86	81												
36/ 35	.2	6.8	4.3																93	93	66	54												
34/ 33	.4	4.4	4.9																79	87	123	52												
30/ 31		2.4	.6																25	25	68	61												
30/ 29	.4	3.5	1.8																47	47	80	83												
28/ 27	.4	3.5	1.2																44	44	49	105												
26/ 25	.2	2.4	.2																24	24	35	47												
24/ 23		.9	.1																8	8	21	39												
22/ 21	.1	.4																	4	4	9	20												
20/ 19	.4																		3	3	7	23												
18/ 17		.4																	3	3	2	15												
16/ 15		.1																	1	1	2	12												
14/ 13																						4												
12/ 11																						6												
10/ 9																						1												
6/ 5	.1	.1																	2	2	1													
4/ 2																					1													
2/ 1	.1																		1	1	1	1												
0/ -1																						1												
-2/ -3																						1												
TOTAL	6,349,741.2	2.9																	819	820	819													









## PSYCHROMETRIC SUMMARY

YEARS

JAN  
MONTH

PAGE 1 1400-2000  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL			
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
51/ 55					.5	.1																											3	3			
54/ 53			.1	.3	.1																												8	8			
52/ 51			.4	2.6	.3																												29	29	3		
57/ 49			.7	2.3	.3																												25	25	15	3	
48/ 47	.1	1.6	2.7	1.2																													43	43	38	6	
46/ 45	.3	5.6	7.0	1.6			.1																										112	112	56	34	
44/ 43	.7	4.0	4.6	2.6																													91	91	87	47	
42/ 41	.1	3.4	5.1	1.6																													78	78	62	69	
40/ 39	.5	4.4	3.5	.1																													66	66	71	63	
38/ 37	.4	4.6	4.3																														71	71	94	56	
36/ 35	.3	4.3	5.2	.3																													77	77	72	70	
34/ 33	.5	3.6	3.4	.1																													59	59	105	85	
32/ 31		2.5	.7	.1																													25	25	53	38	
30/ 29	.4	3.4	1.0																														37	37	40	79	
28/ 27	.3	2.9	.7																														29	29	32	103	
26/ 25	.0	.8																															8	8	25	41	
24/ 23		.7																															2	2	8	21	
22/ 21																																				2	28
20/ 19																																					5
18/ 17		.1																															1	1	1	8	
16/ 15		.3																															2	2	2	5	
14/ 13		.5																																			

## PSYCHROMETRIC SUMMARY

**YEARS**

102

PAGE 1 210-2360  
HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																								TOTAL D.B.W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point								
54/ 53		.3	.9	.1	.1													11	11									
51/ 51			2.8	.3	.1													24	24	3								
49/ 49		.7	1.2	.1	.1													16	16	14	2							
45/ 47		3.3	2.8	.9														44	44	21	3							
46/ 45	.1	6.6	6.4	1.1														106	106	64	35							
44/ 43	.8	3.2	3.2	1.3														64	64	78	46							
47/ 41	.8	2.8	6.3	1.6														86	86	67	62							
41/ 39	.4	4.8	3.2	.5														72	72	46	61							
75/ 37	.4	5.5	3.1															67	67	96	49							
26/ 35	.1	4.8	4.7	.1														73	73	84	72							
36/ 33	.1	4.7	4.3															61	61	88	74							
32/ 31	.1	3.1	1.3															34	34	72	49							
37/ 29		3.5	1.6															38	38	29	69							
28/ 27	.8	2.2	.7															35	35	41	103							
26/ 25		.9																7	7	25	36							
24/ 23																				11	24							
27/ 21	.3																	2	2	2	26							
21/ 19	.1																	1	1	1	15							
17/ 17		.1																1	1	1	7							
16/ 15		.1																1	1	2	6							
14/ 13		.1																1	1	1	2							
12/ 9		.1																1	1	1	2							
8/ 7	.1																	1	1	1	1							
6/ 5	.1																	1	1	1	1							
4/ 3																					1							
2/ -1																					1							
TOTAL	4.4	46.2	43.3	6.7	.4													747		747	747							

Element (X)	$\Sigma X^2$	$\Sigma X$	$\bar{X}$	$\sigma_x$	No. Obs.	Mean No. of Hours with Temperature						
						≤ 32 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	4685692	58663	73.61	7.81	747							
Dry Bulb	1193476	29388	39.3	7.72	747		15.3					93
Wet Bulb	1046608	27508	36.8	6.71	747		23.2					93
Dew Point	858625	24885	33.0	7.58	747	.1	42.7					93



## PSYCHROMETRIC SUMMARY

FEB

## STATION

STATION NAME

**YEARS**

**MONTH**

PAGE 9

3000-3200

HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																											TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point											
54/ 57			.5																3	3											
52/ 51			.5																1	1	1										
50/ 49		1.3	1.3																10	17	2	1									
48/ 47		2.3	1.0																16	16	14	2									
46/ 45		4.3	4.5																35	35	11	16									
44/ 43	.5	6.8	3.3																42	42	20	9									
42/ 41	1.0	8.0	3.3																49	49	51	15									
40/ 39		8.0	4.5																51	51	41	51									
38/ 37	1.3	7.0	7.8																62	62	52	49									
36/ 35	.5	6.3	1.0																34	34	48	36									
34/ 33		7.3	2.3																38	38	51	40									
32/ 31	.3	4.5	.5																21	21	29	34									
30/ 29	.3	4.0																	20	20	29	51									
28/ 27	.5	3.5																	17	17	21	40									
26/ 25																					10	22									
24/ 23																						23									
22/ 21																						6									
20/ 19																						2									
18/ 17																						2									
TOTAL	4.363	9.31	.3																399	399	399	399									

Element (X)	$\Sigma x'$	$\Sigma x$	$\bar{x}$	$s^2$	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	2663174	32474	81.4	7.118	399	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	611374	15456	38.7	5.639	399		12.2					84
Wet Bulb	546503	14705	36.6	5.460	399		20.8					84
Dew Point	461976	13356	33.5	6.119	399		37.5					84

## PSYCHROMETRIC SUMMARY

**YEARS**

FEB  
MONTH

PAGE 1 C300-0500  
HOURS (L. S. T.)

Temp. (F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	= 31	TOTAL D.B./W.B.	TOTAL Dry Bulb	Wet Bulb	Dew Point
44/ 53			.3															2	2		
52/ 51			.3															2	2		
50/ 49			.6	.9														10	10	5	
48/ 47	.1	1.6	.3															14	14	12	5
46/ 45		4.7	4.1	.1														61	61	27	17
44/ 43	.3	4.8	2.3															51	51	34	25
42/ 41		6.5	2.8															63	63	62	24
40/ 39	.7	8.4	2.2															77	77	55	66
38/ 37	.6	5.7	3.1															64	64	74	59
36/ 35	1.1	8.8	3.4															90	90	66	61
34/ 33	.4	1.7	2.9															96	96	113	61
32/ 31		4.1	1.0															35	35	86	45
30/ 29	.3	7.9	.7															61	61	62	99
28/ 27	2.1	3.7																39	39	49	1.8
26/ 25	.4	1.6																14	14	23	43
24/ 23	.3																	2	2	13	37
22/ 21	.1																	1	1	1	19
20/ 19																					8
18/ 17																					5
TOTAL	6.5	56.0	124.3	.1														682	682	682	

## PSYCHROMETRIC SUMMARY

FFB

## STATION

STATION NAME

**YEARS**

**MONY**

PAGE 1

2600-0845  
MOORE (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	= 31	Dry Bulb	Wet Bulb	Dew Point															
52/ 51			.4																3	3															
57/ 45			.3	.8															6	3	1														
45/ 47		2.2	.7		.1														23	23	16	1													
46/ 45	.4	4.6	3.4	.1															65	65	38	26													
44/ 43	.1	4.5	3.7	.3															60	60	34	32													
42/ 41	.1	4.4	1.1																58	58	68	20													
47/ 39	.8	8.8	1.7																86	86	56	73													
38/ 37	1.7	3.6	3.8																69	69	90	77													
36/ 35	.3	8.9	3.6																97	97	48	51													
34/ 33	1.1	9.2	2.8																99	99	139	60													
32/ 31		4.9	.7																42	42	88	40													
30/ 29	.3	7.5	.5																63	63	71	109													
28/ 27	2.8	4.5																	55	55	66	135													
26/ 25	.4	2.4																	21	21	16	56													
24/ 22	.5	.1																	5	5	22	39													
22/ 21	.1	.3																	3	3	2	17													
20/ 19																					2	17													
18/ 17	.4																		3	3	3	5													
16/ 15																						1													
14/ 13																						1													
TOTAL	8.568	222.4	.5																760		760	760													

Element (X)	Σ x'	Σ x	Σ	Σ <sub>2</sub>	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 31 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Rel. Hum.	5370935	63611	83.7	7.051	760							
Dry Bulb	150656	27854	36.7	6.267	760		21.2					84
Wet Bulb	953294	26530	34.9	5.985	760		29.8					84
Dew Point	815363	24403	32.1	6.473	760		46.4					84



## PSYCHROMETRIC SUMMARY

YEARS

FEB  
MONTH

PAGE 1 0900-1100  
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	= 31	Dry Bulb	Wet Bulb	Dew Point					
61/ 53			.6	.3														7	7						
62/ 51			.4	1.2														16	18						
57/ 46			.4	1.0														11	11	12					
48/ 47			2.3	2.4														45	45	26	3				
48/ 45		.5	5.8	4.4														85	85	58	37				
48/ 42		.1	4.2	3.1	.6													64	64	54	38				
47/ 41		.3	5.7	4.2	.1													61	81	72	62				
47/ 39		.2	7.6	3.5	.4													98	98	63	74				
39/ 37		.9	3.8	4.9														76	76	100	64				
36/ 35		.8	7.8	4.7	.3													107	107	76	65				
34/ 33	1.3	6.0	3.0	.1														83	83	150	80				
32/ 31		.5	.2	.6														45	45	78	49				
31/ 29		.1	4.3	.6														40	40	54	115				
26/ 27	1.3	2.4																29	29	38	114				
24/ 25		.1	.3															3	3	9	51				
24/ 23																					21				
22/ 21		.1																1	1	1	16				
20/ 19		.1																1	1	1	4				
18/ 17																					1				
TOTAL	6.4	56.6	35.0	1.8														794	794	794	794				

Element (X)	ΣX'	ΣX	X	σ <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	5360511	64871	81.7	8.731	794	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	
Dry Bulb	1226930	30840	38.8	6.54	794		12.6					84
Wet Bulb	1097393	29163	36.7	5.754	794		19.4					84
Dew Point	928484	26688	33.6	6.297	794		39.2					84

## PSYCHROMETRIC SUMMARY

FEB

**YEARS**

MONTH

42-1400  
HOURS (L, S, T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	Dry Bulb	Wet Bulb	Dew Point				
50/ 57																		4	4					
56/ 55					1.0													9	9					
54/ 53			2.1	1.3	.7													31	31					
52/ 51		.2	3.1	.5														32	32	4				
50/ 49		.2	2.6	.8														31	31	42				
48/ 47		2.1	3.3	1.6														59	59	42				
46/ 45	.4	5.3	6.6	2.1	.4													127	127	74				
44/ 43		3.2	5.1	1.2														87	80	73				
42/ 41	.5	4.4	6.1	2.1	.2													112	112	90				
40/ 39	.2	4.9	5.4	.7														94	94	99				
38/ 37	.8	1.9	4.1	.6	.2													66	66	95				
36/ 35	.6	4.8	2.6	.6														71	71	86				
34/ 33	.5	5.1	3.3	.1														79	79	113				
32/ 31		1.8	.4															18	18	77				
30/ 29		1.9	.1															17	17	24				
28/ 27	.5	.4																7	7	18				
26/ 25	.1																	1	1	1				
24/ 23																								
22/ 21																								
20/ 19																								
18/ 15																								
TOTAL	3.9	36.3	44.7	12.9	2.1													838	838	838				

Element (X)	Σx'	Σx	Σ	Σ <sub>n</sub>	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	5010227	64151	76.61	6.898	838	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	
Dry Bulb	1491147	34969	41.7	6.176	838		4.3					84
Wet Bulb	1286097	32485	38.8	5.661	838		12.7					84
Dew Point	1040725	29045	34.7	6.376	838		32.5					84

## PSYCHROMETRIC SUMMARY

74-83

YEARS

FEB  
MONTH

PAGE 1 1500-1700  
HOURS (L. S. T.)

Temp. (F)		WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL D.B./W.B.	TOTAL		
		0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	Dry Bulb	Wet Bulb	Dew Point												
51/ 59							.1												1	1													
52/ 57						.2	.1												3	3													
54/ 55					.7														6	6													
54/ 53			.1	2.2	.5														26	26													
52/ 51			.2	2.3	1.1	.2													32	32	2												
52/ 49			1.2	1.7	1.2														34	34	33	1											
48/ 47			3.9	4.1	.8	.2													76	76	49	7											
48/ 45	.2	5.9	6.7	1.8	.4														125	125	78	50											
44/ 43	.2	4.3	5.3	2.2	.2														102	102	94	57											
42/ 41		3.3	5.9	1.6															90	90	93	76											
41/ 39	.2	4.2	5.5	1.3															94	94	86	102											
39/ 37	.4	2.4	2.7	.8	.2														55	55	89	59											
36/ 35	.4	3.8	4.3	.5															75	75	83	82											
34/ 33	.1	4.3	2.2	.4															64	64	109	71											
32/ 31		2.5	.2	.1															25	25	64	48											
31/ 29		2.2	.1																19	19	43	91											
29/ 27	.4	.7	.1																10	10	10	117											
26/ 25																						38											
24/ 23																						20											
22/ 21																						7											
21/ 19																						7											
18/ 17																						2											
16/ 15																						2											
TOTAL		1.9	39.2	43.0	13.3	1.6	.2												837	837		937											

Element (X)	Σx'	Σx	Σ	Σ <sub>2</sub>	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	4948372	63758	76.2	10.470	837	≥ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	1499053	35043	41.9	6.177	837		5.4					84
Wet Bulb	1292324	32534	38.9	5.760	837		12.1					84
Dew Point	1043367	29035	34.7	6.579	837		33.3					84

## PSYCHROMETRIC SUMMARY

74-83

FEB

**STATION**

STATION NAME

YEARS

**MONTH**

PAGE 1 1600-2040

HOURS (L, S, T)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B./W.B.	TOTAL			
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point																
54/ 53			.4															3	3																	
52/ 51		.7	1.3	.3														16	16	1																
50/ 49		.6	1.4	.3														16	16	7																
48/ 47		3.0	2.0	.1														36	36	28	6															
46/ 45		6.2	7.6	.3														99	99	38	23															
44/ 43	.4	5.1	3.8	.3														68	68	80	39															
42/ 41	.1	6.5	6.8	.3														97	97	69	53															
40/ 39	.3	6.8	4.4	.4														84	84	78	79															
38/ 37	1.5	4.7	3.7	.4														69	69	89	66															
36/ 35	.1	3.3	4.1	.1														54	54	73	66															
34/ 33	.1	6.5	5.7	.1														79	79	84	74															
32/ 31		3.8	.7															29	29	82	49															
30/ 29		4.8	.7															39	39	42	62															
28/ 27	.4	1.3	.7															13	13	22	111															
26/ 25	.1																	1	1	10	34															
24/ 23																					29															
22/ 21	.3																	2	2	2	5															
20/ 19																					8															
18/ 17																					1															
TOTAL	3.0	52.9	41.6	2.7														705	705	705	705															
																						705		705												

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USAFETAC FORM 0-26-5 (OL A) ALLIED SERVICES EDITIONS OF THIS FORM ARE OBSOLETE  
JUL 64



## PSYCHROMETRIC SUMMARY

**YEARS**

  MAR    
MONTH

PAGE 1 3000-0200  
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																			TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point			
56/ 55				.2														1	1					
54/ 53			.4															2	2					
52/ 51		.4	.9															6	6	1				
50/ 49		1.6	1.3															13	13	4	1			
48/ 47		2.2	1.3	.4														16	18	16	5			
46/ 45	.4	2.5	2.2	.7														25	25	18	12			
44/ 43	.7	5.4	4.7	.7														48	48	22	18			
42/ 41	2.1	11.6	3.3	.9														80	80	60	31			
40/ 39	2.5	12.1	1.1	.4														72	77	69	60			
38/ 37	1.1	7.4	4.5	.2														59	59	71	57			
36/ 35	.4	6.2	2.2	1.1														45	45	48	61			
34/ 33	.4	5.1	4.5	.7														48	48	60	43			
32/ 31	.2	3.3	1.7															22	22	39	30			
30/ 29		1.8	.2															9	9	29	44			
28/ 27																				11	37			
26/ 25																					20			
24/ 23																					13			
22/ 21																					12			
20/ 19																					4			
TOTAL	7.8	59.6	27.2	5.4														448		448	448			

Element (X)	Σx'	Σx	X	σ <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	3081398	36872	82.31	0.221	448	± 0 F	± 32 F	± 67 F	± 73 F	± 80 F	± 93 F	Total
Dry Bulb	710741	17707	39.5	4.934	448		6.4					93
Wet Bulb	638493	16767	37.4	4.053	448		16.4					93
Dew Point	548031	15029	34.4	6.105	448		33.2					93

## PSYCHROMETRIC SUMMARY

74-83

MAR

STATION

STATION NAME

**YEARS**

**MONTH**

PAGE 1

0300-0500

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	Dry Bulb	Wet Bulb	Dew Point															
54/ 53			.8															6	6	5															
52/ 51		.4	.5	.5														11	11	9	8														
50/ 49			.4	.4														6	6	6	1														
48/ 47		.1	1.0	1.8														30	30	10	7														
46/ 45	1.1	4.2	1.7	.4														58	58	44	27														
44/ 43	.6	4.1	3.1	.4														67	67	41	29														
42/ 41	.9	8.8	3.2	.4														104	104	74	53														
40/ 39	1.5	12.9	1.0															121	121	91	77														
38/ 37	2.4	8.4	2.4															104	104	138	80														
36/ 35	.4	11.5	2.4	.4														115	115	84	92														
34/ 33	.3	7.4	3.2	.1														95	95	143	99														
32/ 31		2.9	.9															30	30	63	61														
30/ 29	.1	7.1	.5															29	29	51	103														
28/ 27	.1	1.4																12	12	23	71														
26/ 25																				0	25														
24/ 23																					27														
22/ 21																					20														
20/ 19																					3														
TOTAL	8.568	321.1	2.1															783	783	783	783														

Element (X)	$\Sigma x'$	$\Sigma x$	$\bar{x}$	$\sigma_x$	No. Obs.	Mean No. of Hours with Temperature						
						= 6 F	= 32 F	= 47 F	= 73 F	= 80 F	= 93 F	Total
Rel. Hum.	55776.8	65710	83.9	8.788	783							93
Dry Bulb	1196792	30342	38.8	5.796	783		8.4					93
Wet Bulb	1088548	28918	36.9	5.125	783		17.1					93
Dew Point	946751	26801	34.2	6.131	783		36.8					93



## PSYCHROMETRIC SUMMARY

035621	ALCONBURY RAF UK
STATION	STATION NAME

74-83

YEARS

MAR  
MONTH

PAGE 1 2600-0800  
HOURS (L. S. T.)

Temp. (F)	ET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL				
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point		
54/ 53			.6																																5	5	2	
52/ 51		.6	.2	.4																														10	10	9	7	
50/ 49		.1	.8	.5																														12	12	5	5	
48/ 47			3.8	1.1	.5																													45	45	23	3	
46/ 45		.7	6.0	2.9	.2																													84	84	51	50	
44/ 43		.4	4.6	2.0	.2																													69	69	61	36	
42/ 41		.7	8.4	2.9	.4																													105	105	86	47	
40/ 39	1.2	14.1	1.1	.1	.1																													140	140	81	50	
38/ 37	3.1	7.5	2.6																															112	112	165	103	
36/ 35	.2	6.7	3.1	.5																														106	106	89	102	
34/ 33	.7	7.4	2.4	.2																														91	91	128	110	
32/ 31	.2	2.1	1.2																															30	30	68	53	
30/ 29	.1	0.1	.2																															29	29	50	82	
28/ 27		1.1																																9	9	25	74	
26/ 25		.2																																2	2	5	38	
24/ 23																																				1	27	
22/ 21																																					15	
20/ 19																																					5	
TOTAL	8.16	6.7	21.2	2.1																															849	549	549	849

Element (X)	$\Sigma x^2$	$\Sigma x$	$\bar{x}$	$s^2$	No. Obs.	Mean No. of Hours with Temperature						Total
						≤ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Rel. Hum.	6294868	71528	88.2	9.042								

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MAR

STATION

STATION NAME

YEARS

**MỘT M**

PAGE 1

7902-1140

MOORE (L. S. T.)

USAFETAC  
FORM  
NO. 24  
0-26-5 (OLA)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

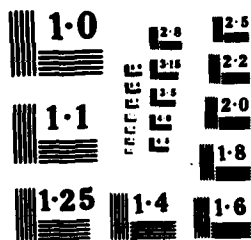
UNCLASSIFIED

ALCONBURY RAF UNITED KINGDOM REVISED UNIFORM SUMMARY OF  
SURFACE WEATHER O. (U) AIR FORCE ENVIRONMENTAL  
TECHNICAL APPLICATIONS CENTER SCOTT A. APR 84  
USAF/AC/DS-84/014 SBI-AD-E850 743 F/G 4/2

4/5

F/G 4/2

NL



## PSYCHROMETRIC SUMMARY

MAE  
MONTH

0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE  
FORM  
U.S. G.A.

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	Dry Bulb	Wet Bulb	Dew Point															
64/ 53						.2												2	3																
62/ 51					.3		.1											5	5																
60/ 49				.6		.1												7	7																
58/ 57			.2	.8	.3	.6												20	23																
56/ 55		1.1	.8	1.7	1.2													44	44	2															
54/ 53	.2	.9	1.4	1.4	1.5	.6	.3											59	59	27															
52/ 51	.3	1.1	4.3	2.2	1.9	.1	.1											92	92	33															
50/ 49		.9	1.2	2.2	1.2	.1	.2											53	53	52															
48/ 47	.3	1.8	4.6	2.9	1.9	.4	.2											113	113	75															
46/ 45		5.9	8.3	5.7	3.4	.4												221	221	138															
44/ 43		2.7	3.4	1.7	1.	.1												83	83	138															
42/ 41	.4	4.6	3.3	2.2	.3	.2												107	107	146															
40/ 39	.1	4.9	1.3	1.5														73	73	132															
38/ 37	.6	.6	1.4	.4														29	29	112															
36/ 35		1.5	.2	.3														19	19	55															
34/ 33	.3																	3	3	40															
32/ 31																				7															
30/ 29																				3															
28/ 27																																			
26/ 25																																			
24/ 23																																			
22/ 21																																			
20 / 19																																			
18/ 17																																			
16/ 15																																			
TOTAL	2.4	25.9	30.9	23.7	13.2	3.7	1.7											930	930	930															

Element (X)	Σx <sup>1</sup>	Σx	X̄	s <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	4901079	66123	71.1	14.663	93	0 F	32 F	67 F	73 F	80 F	93 F	
Dry Bulb	2037552	43236	46.5	5.841	93							93
Wet Bulb	1692025	39375	42.3	4.269	93		1.7					43
Dew Point	1320473	34485	37.1	4.708	93		20.3					93

## PSYCHROMETRIC SUMMARY

74-83

MAD

STATION

STATION NAME

**YEARS**

**MONTH**

PAGE 1 1500-1700

1975-1976

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																								TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point								
64/ 63							.1											1	1										
62/ 61						.7												9	9										
60/ 59				.3	.1	.1	.2											10	10										
58/ 57			.1	1.1	.4	.9	.1											24	24										
56/ 55		.8	.4	1.2	.6	.8	.1											38	38										
54/ 53	.1	1.1	1.3	1.4	1.5	.5	.2											57	57	27	2								
52/ 51	.7	.5	2.6	2.5	.9	.8	.3											75	75	33	20								
50/ 49		.2	2.6	2.2	.8	.1												52	52	39	11								
48/ 47	.1	1.7	4.3	3.6	2.3	.7	.3											123	123	70	21								
46/ 45	.3	5.4	9.9	4.3	2.6	.8	.1											216	216	119	53								
44/ 43		3.6	5.5	1.7	.7	.2												98	98	134	60								
42/ 41	.2	4.3	3.5	1.6	.4	.2												95	95	152	94								
40/ 39	.7	4.3	2.1	1.2	.1													73	73	132	137								
38/ 37		1.6	1.7	.5														36	36	104	107								
36/ 35		.8	.1	.4														12	12	61	92								
34/ 33	.3																	3	3	40	107								
32/ 31																				11	47								
30/ 29																				2	62								
28/ 27																					41								
26/ 25																					21								
24/ 23																					20								
22/ 21																					14								
20/ 19																					7								
18/ 17																					4								
16/ 15																					1								
14/ 13																					1								
12/ 11																					1								
TOTAL	2.123	9.33	6.22	6.11	3.5	5.1	1.3	.3										922		922	922								

Element (X)	Σx'	Σx	X	T <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Num.	4758001	64775	70.3	15.03	922	≤ 32 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	2017726	42234	46.5	5.497	922							93
Wet Bulb	1661624	38878	42.2	4.916	922	1.3						93
Dew Point	1283659	33833	36.7	6.765	922	22.0						93



## PSYCHROMETRIC SUMMARY

**YEAR**

MAP  
MONTH

PAGE 1 2100-2300  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																			TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point			
55			.1	.3														3	3				
51	1.2	.5	1.4	.4														26	26	11			
49		1.2	.4	.3														14	14	12			
47	.6	4.6	1.1	.3	.1													51	51	40			
45	.1	5.6	5.7	1.5														95	95	40			
43	.3	3.5	4.8	1.1														74	74	52			
41	.5	1.5	5.7	1.1	.4													151	151	112			
39	.5	1.8	2.9	.3														106	106	104			
37	.7	5.5	3.8	.1														71	71	121			
35	.1	6.1	3.7	.5														77	77	75			
33	1.7	2.7	3.6	.3														51	51	97			
31		.5	.5															8	8	23			
29		.1	.7															6	6	29			
27		.1																1	1	6			
25																				3			
23																				15			
21																				11			
19																				5			
TOTAL	5.0	54.5	33.1	6.7	.5													734	734	734			

Element (X)	$\Sigma x^2$	$\Sigma x$	$\Sigma$	$\sigma_x$	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	4895023	59455	81.0	10.387	734							
Dry Bulb	1254629	33127	41.0	4.965	734		1.9					93
Wet Bulb	1119963	28427	38.7	5.194	734		5.7					93
Dew Point	954813	26065	35.5	6.314	734		28.4					93



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

135621 ALCONBURY RAF UK

74-83

MAR  
MONTH

PAGE 1

ALL  
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL	TOTAL			
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
64/ 63																																	3	3		
52/ 61																																	18	18		
61/ 59																																	18	18		
58/ 57																																	51	51		
56/ 55																																	102	102	4	
54/ 53																																	180	180	76	9
52/ 51																																	304	304	131	84
50/ 49																																	205	205	154	48
48/ 47																																	517	517	306	115
46/ 45																																	1037	1037	581	326
44/ 43																																	686	686	648	339
42/ 41																																	893	893	905	562
40/ 39																																	797	797	876	802
38/ 37																																	588	588	951	758
36/ 35																																	466	466	555	710
34/ 33																																	332	332	658	778
32/ 31																																	93	93	273	371
30/ 29																																	77	77	187	583
28/ 27																																	22	22	70	392
26/ 25																																	2	2	15	206
24/ 23																																			1	163
22/ 21																																				93
20/ 19																																				39
18/ 17																																				9
16/ 15																																				2
14/ 13																																				1
12/ 11																																				1
TOTAL	1.346	5.332	8.12	1.4	3.1	4.3	1.4																											6347	6347	6347

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE  
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## PSYCHROMETRIC SUMMARY

075521 ALCONBURY RAF UK  
STATION STATION

74-83

APR

PAGE 1 0000-0200  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
56/ 57				.2														1	1																
56/ 55			1.1															5	5																
54/ 52		.2	2.1	.6														14	14	1															
52/ 51		1.7	2.5															20	20	9															
51/ 49			1.5	2.9	1.5													28	28	21	9														
49/ 47			2.9	3.3	.4	.2												33	33	29	16														
48/ 45			3.5	6.5	.6	.6												53	53	30	31														
44/ 43	.2	6.7	7.5	1.7														74	74	33	22														
45/ 41	.4	6.2	5.6	.6														62	62	79	26														
40/ 39	.2	7.7	5.7	.4														64	64	63	54														
38/ 37		4.6	5.7	.4														48	48	67	68														
36/ 35			3.7	3.7	.2													37	37	52	53														
34/ 33			4.5	2.3														30	30	47	54														
32/ 31		1.5	.4															9	9	32	35														
30/ 29		.2	.2															2	2	14	43														
28/ 27																				3	37														
26/ 25																					19														
24/ 23																					9														
22/ 21																					4														
TOTAL	.943	.748	.1	6.7	.6													480	487	480	480														

Element (X)	$\Sigma x^1$	$\Sigma x$	$\bar{x}$	$\sigma_x$	No. Obs.	Mean No. of Hours with Temperature						Total
						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	
Rel. Hum.	2991513	37659	78.5	8.783	480							
Dry Bulb	868498	20242	42.2	5.573	480		2.1					90
Wet Bulb	760514	18932	39.4	5.368	480		9.2					90
Dew Point	635028	17200	35.8	6.247	480		27.6					90

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
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# PSYCHROMETRIC SUMMARY

STATION 15521 ALCONBURY RAF UK

74-83

YEARS

APR  
MONTH

PAGE 1

0300-0500  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
56/ 55			.4															3		3															
54/ 53		.4			.7													13		13															
52/ 51		1.1	1.6															20		20	10	2													
50/ 49		1.5	1.1															19		19	18	1													
48/ 47		3.9	1.9	.1														44		44	32	19													
46/ 45	1.1	5.6	5.1	.1														89		89	56	57													
44/ 43	.3	5.8	6.6	.9														101		101	53	35													
42/ 41	.1	9.8	5.9	.5														122		122	77	54													
40/ 39	.5	9.4	1.7	.1														68		68	128	73													
38/ 37	1.3	5.9	4.2															85		85	118	123													
36/ 35	.1	5.4	4.7															71		71	61	70													
34/ 33		5.4	2.0															55		55	98	71													
32/ 31		1.2	.4															12		12	51	48													
30/ 29		2.4	.5															22		22	28	69													
28/ 27		.3																7		7	12	82													
26/ 25																					2	19													
24/ 23																						16													
22/ 21																						7													
TOTAL	3.557	936.1	2.5															746		746	746														

Element (X)	Z <sub>1</sub>	Z <sub>2</sub>	Z <sub>3</sub>	Z <sub>4</sub>	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	5.26588	60922	81.7	8.306	746	10 F	12 F	14 F	16 F	18 F	20 F	
Dry Bulb	1267074	32480	42.9	5.400	746		8.3					9.2
Wet Bulb	1139212	28818	38.6	5.287	746		11.2					9.0
Dew Point	973723	26563	35.6	6.118	746		29.1					9.0

BEYOND PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

0-26-5 (OL A)

FORM 10-64

USAFETAC

## PSYCHROMETRIC SUMMARY

75521	ALCONEURY RAF UK
STATION	STATION NAME

74-83

**YEARS**

APR

**MONTH**

PAGE 1 0600-0800

1948 11 1 7 2

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point															
54/ 55			.2	.1														3	3																
54/ 53			.5	.9														15	15	3															
52/ 51		.4	1.2	2.0														36	36	10	6														
51/ 49			.6	2.3	.7													70	30	25	6														
48/ 47		.1	.4	3.4	.5	.1												70	70	43	12														
44/ 45		.2	7.7	9.7	1.3													150	150	60	61														
44/ 43		.7	6.4	9.7	2.7													156	156	93	63														
42/ 41		.2	7.3	3.9	.6	.1												100	100	124	71														
41/ 34		.5	7.1	2.6	.2													85	85	145	122														
34/ 37	1.7	2.4	3.4															70	70	108	110														
30/ 35			5.8	2.3														50	50	57	94														
34/ 33			2.8	1.5														71	31	60	88														
27/ 31			.7	.4														9	9	28	36														
21/ 29			.7	.2														8	8	13	67														
26/ 27	.1	.5																5	5	4	67														
26/ 25																				5	11														
24/ 23																					3														
22/ 21																					6														
27/ 19																					2														
TOTAL	3.9	47.4	41.7	6.5	.5													818	818	818	918														

Element (X)	Σ x'	Σ x	X	σ <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature						Total
						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	
Rel. Hum.	5331839	65591	87.2	9.417	818							
Dry Bulb	1505249	34832	42.6	5.193	818		2.4					90
Wet Bulb	1333268	32772	40.1	4.985	818		5.5					90
Dew Point	1133701	30081	36.8	5.802	818		20.4					90

## PSYCHROMETRIC SUMMARY

APR  
MONTH

**2019-2020**  
**HOURLY (EST.)**

[illegible]



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

STATION ALCONBURY RAF UK  
STATION NAME

74-83  
YEARS

YEARS

APR  
MONTH

PAGE 1 1500-1700  
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-7	S.W.B.	Dry Bulb	Wet Bulb	Dew Point	
77/ 69																	3	3			
68/ 67																	2	2			
66/ 65																	14	14			
64/ 63																	30	30			
62/ 61																	29	29			
60/ 59																	39	39			
58/ 57																	54	54			
56/ 55																	82	82			
54/ 53																	81	81			
52/ 51																	100	100			
50/ 49																	65	65			
48/ 47																	92	92			
46/ 45																	166	166			
44/ 43																	32	32			
42/ 41																	16	16			
40/ 39																	22	22			
38/ 37																	14	14			
36/ 35																	7	7			
34/ 33																	1	1			
32/ 31																					
30/ 29																					
28/ 27																					
26/ 25																					
24/ 23																					
22/ 21																					
20/ 19																					
18/ 17																					
TOTAL																	853		853		

Element (X)	Σ X'	Σ X	X	σ <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	7347162	52004	61.0	14.001	853	≥ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	2263068	43574	51.1	6.605	853			5				90
Wet Bulb	1734731	39199	44.8	5.319	853			2				90
Dew Point	1228756	31852	37.3	6.797	853			22.1				90

Element (X)	Z <sub>H</sub>	Z <sub>X</sub>	X	X <sub>n</sub>	No. Obs.	Mean No. of Hours with Temperature					Total
Ref. Num.	3347162	520008	61.0	14.401	853	± 0 F	± 32 F	± 67 F	± 75 F	± 80 F	± 93 F
Dry Bulb	2263068	43578	51.1	6.605	853			.5			90
Wet Bulb	1734731	39199	44.8	5.319	853		.2				90
Dew Point	1228756	31852	37.3	6.797	853		22.1				90

FORM 0-26-5 (OL A) REVISED EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC

## PSYCHROMETRIC SUMMARY

YEARS

APR  
1964

PAGE : 185-200  
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point															
66/ 63																		2	3																
67/ 61																		10	10																
67/ 59																		17	17																
67/ 57																		26	26																
67/ 55																		45	45	5															
67/ 53																		50	50	24															
67/ 51																		59	59	27	9														
67/ 49																		55	55	57	10														
67/ 47																		53	53	61	23														
67/ 45																		162	162	90	73														
67/ 43																		87	87	88	44														
67/ 41																		41	41	179	65														
67/ 39																		37	37	76	84														
67/ 37	1.4																	34	34	84	86														
67/ 35																		13	13	43	78														
67/ 33																		5	5	37	65														
67/ 31																		2	2	11	38														
67/ 29																		1	1	2	64														
67/ 27																					64														
67/ 25																					21														
67/ 23																					11														
67/ 21																					2														
67/ 19																					2														
TOTAL	1.6	1.4	3.3	4.7	2.8	9.1	4.2	4.5	.9	.4								730	730	730															

Element (X)	ΣX'	ΣX	X	X'	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	3525664	49814	68.2	13.17	730	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	1659562	34522	47.3	6.86	730							90
Wet Bulb	1347057	31121	42.6	5.28	730		1.5					90
Dew Point	1022626	26900	36.8	6.56	730		23.8					90



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

125621 ALCONBURY RAF UP  
STATION STATION NAME

74-83

YEARS

APR  
MONTH

PAGE 1 2100-2300  
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL	TOTAL					
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point		
59/ 59					.2																													1	1			
58/ 57					.2	.8																												6	6			
56/ 55					1.7	.5	.2																											14	14	1		
54/ 53				1.2	1.2	1.8	.5																											28	28	1		
52/ 51				1.7	4.0	.3	.5																											35	35	24	2	
50/ 49				.5	2.6	1.2	.5																											29	29	29	11	
48/ 47				3.1	1.8	2.0	.7																											46	46	36	20	
46/ 45	.2	3.8	9.6	3.8	1.5																													114	114	52	43	
44/ 43			4.6	8.9	4.0	.2																												107	107	49	34	
42/ 41			5.4	5.8	1.7																													76	78	110	43	
40/ 39	.2	4.3	3.6	.8																														52	52	98	63	
38/ 37	1.2	1.3	4.8																															48	48	83	58	
36/ 35			2.1	2.5																														28	28	39	72	
34/ 33			2.1	1.1																														19	19	51	61	
32/ 31				.5																														3	3	23	29	
30/ 29			.3																															2	2	7	62	
28/ 27																																					3	49
26/ 25																																					20	
24/ 23																																					6	
22/ 21																																					3	
TOTAL	1.5	29.5	48.2	16.8	4.0																													606	606	606	606	

Element (X)	Σx'	Σx	X	σ <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature							
Rel. Hum.	3458610	45342	74.81	0.448	606	± 0 F	± 32 F	± 67 F	± 73 F	± 80 F	± 93 F	Total	
Dry Bulb	1191326	26667	44.0	5.535	606		.7					90	
Wet Bulb	1016793	24521	47.6	5.218	606		4.9					90	
Dew Point	821896	21998	36.3	6.214	606		25.1					90	

Element (X)	Z <sub>g</sub>	Z <sub>h</sub>	X	X <sub>h</sub>	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	3458610	45342	74.81	44.8	606	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 90 F	
Dry Bulb	1191326	26667	44.0	5.535	606		.7					90
Wet Bulb	1016793	24621	47.6	5.218	606		4.9					90
Dew Point	821826	21998	36.3	6.218	606		25.1					90

USAFETAC FORM 84 0-26.5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

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APG

**MONTH**

418

ALL  
NOV 18 1964

USAFETAC FORM 0.26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE AIR 64

## PSYCHROMETRIC SUMMARY

475621  
STATION

ALCCNBURY RAF UV

74-23

MA 1

PAGE 1 5000-0200  
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																											TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point											
59/ 59				.2														1	1													
58/ 57		.2	.2	.4														2	2													
56/ 55	.2	.4	1.2	2.2	.2													21	21	3	2											
54/ 53		1.2	3.4	1.2														27	27	7	1											
52/ 51	.2	1.4	5.2	1.2	.4													41	41	16	5											
50/ 49		2.6	7.4	.2														59	59	40	8											
48/ 47	.4	9.6	8.2	1.0														95	95	72	33											
46/ 45	.4	11.2	9.2	1.0														108	108	99	67											
44/ 43	.4	5.8	4.6	1.4														61	61	86	81											
42/ 41		3.4	4.6	.4														42	42	66	79											
40/ 39		2.2	2.2	.6														23	23	47	72											
38/ 37	.4	.4	.8															8	8	34	51											
36/ 35	.4	.8	.2															7	7	17	40											
34/ 33		.2	.2															2	2	10	25											
32/ 31		.2																1	1	3	13											
30/ 29																					8											
28/ 27																					11											
26/ 25																					4											
TOTAL	2.44	.246	.810	.2	.6													500	500	500	500											

Element (X)	Σx'	Σx	X	σ <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	3195114	39728	79.5	8.782	500	≥ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	1150059	23341	46.7	4.577	500		.2					93
Wet Bulb	971169	21927	43.9	4.287	500		.6					93
Dew Point	836101	20281	40.6	5.198	500		6.7					93

## PSYCHROMETRIC SUMMARY

74-83

**YEARS**

MAY  
MONTH

PAGE 1 737C-0500  
HOURS (L. S. T.)

Temp. (F)		WET BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL		
		0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31		Dry Bulb	Wet Bulb	Dew Point			
58/	57		.1		.1														2	2					
56/	55	.1	.5	1.2	.8														20	20	2	2			
54/	53	.1	.9	1.5	.3														21	21	10	2			
52/	51	.3	2.5	3.2															45	45	20	12			
50/	49	.3	3.2	3.8	.8														61	61	49	7			
48/	47	.9	9.7	6.1	.5														129	129	75	44			
46/	45	.8	16.8	8.9	.8														206	208	153	111			
44/	43	.7	7.4	5.0	.1														100	100	141	118			
42/	41	.1	3.8	3.4	.1														57	57	101	120			
40/	39		6.1	2.8	.3														68	68	69	97			
38/	37	.6	1.2	.8															22	22	73	72			
36/	35		.5	.3															6	6	30	76			
34/	33		1.7	.3															15	15	19	36			
32/	31	.1	.3																3	3	13	13			
30/	29																					23			
28/	27																					19			
26/	25																					3			
TOTAL		4.4	54.7	37.1	3.8														755	757	755	755			

Element (X)	Σ x'	Σ x	Σ	σ <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	5205942	62378	82.6	8.327	755	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	
Dry Bulb	1578958	34394	45.4	4.641	755			0.4				93
Wet Bulb	1426703	32570	43.1	4.557	755			1.6				93
Dew Point	1253288	30500	40.4	5.299	755			7.1				93

## PSYCHROMETRIC SUMMARY

YEARS

     MAY       
MONTH

PAGE 1 0600-0800  
HOURS (L.S.T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (P)																					TOTAL D.B./W.B.	TOTAL		
	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	Dry Bulb	Wet Bulb	Dew Point						
60/ 63				.4	.1	.2											6	6							
62/ 61			.4	.2													5	5							
64/ 59			.7	.6	.4												14	14							
58/ 57		.4	.6	.9	.5	.1											20	20	.6						
56/ 55		1.0	2.2	2.1	.6												53	54	13						
54/ 51	.1	2.4	4.2	2.2	.4												75	76	34						
52/ 51	.4	2.1	2.3	1.7	.9												171	121	56						
50/ 45		3.4	4.8	1.7	.1												82	83	98						
48/ 47		.7	4.7	5.5	1.2	.5											139	139	144						
46/ 45		4.1	9.9	2.2	1.8	.1											175	176	161						
44/ 43	.5	5.7	3.9	1.5													70	70	117						
42/ 41		1.1	1.0														22	22	66						
40/ 36	.2	1.7	.5														70	70	53						
36/ 37		.4	.5														7	7	28						
34/ 35		.6	.4														8	8	43						
32/ 33		.2	.1														3	3	12						
30/ 31																			2						
28/ 29																			10						
26/ 27																			9						
TOTAL	2.2	36.5	42.6	14.3	3.5	.4											820	820	620						

Element (X)	X <sub>1</sub>	X <sub>2</sub>	X	P <sub>2</sub>	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	5164242	64644	78.8	10.371	820	18 F	32 F	67 F	73 F	80 F	93 F	
Dry Bulb	1976547	93129	48.8	4.512	820							93
Wet Bulb	1726980	37442	45.7	4.535	820							93
Dew Point	1889715	38681	62.3	5.290	820		3.5					

## PSYCHROMETRIC SUMMARY

YEARS

MAY  
MONTH

PAGE 1 7900-1100  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

YEARS

423  
MONTH

PAGE 1 1200-1060  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

YE ARE

MAY  
MONTH

PAGE 1 1500-1700  
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point					
79/79									.1	.1	.1							3	3						
78/77								.1	.1	.1								3	3						
76/75								.1	.2	.3								6	6						
74/73								.1	.7	.5	.2							13	13						
72/71							.1	.1	.5	.1								10	10						
70/69					.1	.6	.6	1.2	.6	.5								30	30						
68/67				.1	.2	.3	.6	.3	.7									16	16						
66/65			.1	.7	.8	1.3	.8	.1	.1									34	34	1					
64/63	.2	2.7	1.3	3.0	2.2	1.5	.2	.1										104	104	7					
62/61	.1	.6	1.5	4.1	1.5	.7	.5	.2										79	79	18					
60/59		.3	1.0	2.3	2.4	1.5	1.1											76	76	36					
58/57	.1	.6	4.3	2.3	2.4	1.4	.1											97	97	52					
56/55	.7	.2	6.1	3.5	.8	.3	.1											101	101	94					
54/53	.1	.5	2.1	4.6	2.1	.5	.7											91	91	121					
52/51	.5	3.4	1.5	1.9	1.2													72	72	91					
50/49	.1	1.5	2.3	.6	.3													42	42	162					
48/47	1.2	2.1	.7	.7	.3													39	39	125					
46/45	1.4	1.5	.3	.8														31	35	91					
44/43	.2	.6	.1															8	8	53					
42/41		.1																1	1	38					
40/39	.3																	3	3	16					
38/37																				8					
36/35																									
34/33																									
32/31																									
30/29																									
28/27																									
26/25																									
22/21																									
TOTAL	.1	1.3	13.7	25.5	27.3	15.3	10.7	6.5	2.2	1.0	.1							863		863					

Element (X)	Z <sub>g</sub> <sup>1</sup>	Z <sub>g</sub>	X	°s	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	31885.0	50892	59.0	14.742	863	≥ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	2908609	49741	57.6	6.953	863			8.7	2.7			93
Wet Bulb	2187642	43224	50.1	5.136	963							93
Dew Point	1598446	36708	42.5	6.557	863		7.2					93



## PSYCHROMETRIC SUMMARY

MAY  
MONTH

USAFETAC FORM 0-26-5 (OL A)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point															
74/ 72						.1	.1	.1	.1									4	4																
72/ 71							.1	.2	.2									4	4																
70/ 69					.1	.4		.1	.1									6	6																
68/ 67						.1		.1										2	2																
66/ 65				.4	.3	.5	.1	.4										13	13																
64/ 63			.1	1.8	1.1	1.2	.3	.5										86	86	1															
62/ 61		.1	.8	.8	2.4	1.9	.4	.1										49	49	7															
60/ 59		.1	.5	1.4	1.6	1.5	.7	.1										44	44	10															
58/ 57		.4	1.8	3.4	1.9	1.8	.3	.3										73	73	27	4														
56/ 55		.4	1.2	5.9	3.7	1.0	.1											90	90	26	10														
54/ 53		.7	2.3	4.1	3.3	.7	.4											84	84	69	16														
52/ 51	.3	1.5	6.1	4.5	1.2	1.1												107	107	82	31														
50/ 49		.1	3.1	3.7	.5	.1												51	51	111	25														
48/ 47		2.7	2.9	1.2	1.1													63	63	126	65														
46/ 45		3.1	4.6	1.0	.4													67	67	109	111														
44/ 43		.5	.2	.5														14	14	81	105														
42/ 41			.7	.1														6	6	46	106														
40/ 39	.1	.6	.3															9	9	19	93														
38/ 37		.4																3	3	16	64														
36/ 35																				5	39														
34/ 33																					16														
32/ 31																					19														
30/ 29																					13														
28/ 27																					9														
26/ 25																					2														
TOTAL	.4	11.0	26.6	28.7	17.0	11.2	3.1	2.3	.3									735			735														

Element (X)	Σx <sup>2</sup>	Σx	Σ	Σ <sub>s</sub>	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	1336972	48536	66.4	13.438	735	≥ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	2166003	39629	53.9	6.330	735			2.0	.5			93
Wet Bulb	1724823	35419	48.2	4.959	735							93
Dew Point	1337358	31050	42.2	5.912	735		6.1					93

## PSYCHROMETRIC SUMMARY

**YEARS**

MAY  
MONTH

PAGE 1      2100-2300  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	= 31	Dry Bulb	Wet Bulb	Dew Point					
66/ 65																		1	1						
64/ 63																		5	5						
62/ 61				.2	.5													7	7						
60/ 59		.2	.6	1.0	.3	.2												20	21	1					
58/ 57		.3	.8	1.1	1.4													20	20	3					
56/ 55		1.1	1.8	3.4	1.3													47	47	13					
54/ 53		1.5	4.1	3.7	.6	.2												62	52	26					
52/ 51		1.8	6.9	3.2	1.6													83	83	35					
50/ 49		1.6	5.8	1.9	.3	.2												64	64	77					
48/ 47		6.5	6.5	2.1	1.3													101	101	24					
46/ 45		6.5	10.7	1.5	.3													117	117	132					
44/ 43	.2	1.8	4.2	1.3														46	46	86					
42/ 41		.5	2.4	.5														71	21	82					
40/ 39		.5	1.1															10	10	34					
38/ 37		.8	.7															7	7	28					
36/ 35		.6																5	5	14					
34/ 33																				7					
32/ 31																									
30/ 29																									
28/ 27																									
TOTAL		.323	.945	5.1	3	8.6	.5		.1									616	416	616					

Element (X)	$\Sigma x'$	$\Sigma x$	$\bar{x}$	$\sigma_x$	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	3436196	45586	74.0	10.256	616	= 0 F	= 32 F	= 67 F	= 73 F	= 80 F	= 93 F	Total
Dry Bulb	1518401	30421	49.4	5.111	616							93
Wet Bulb	1290292	28750	45.5	4.600	616							93
Dew Point	1065013	25393	41.2	5.448	616		6.2					93

## PSYCHROMETRIC SUMMARY

035621 ALCONBURY RAF UK  
STATION STATION NAME

74-83

YEARS

MAY

MONTH

PAGE 1

ALL  
NOUNS (C. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	= 31	Dry Bulb	Wet Bulb	Dew Point															
81/ 79																		3	3																
78/ 77																		5	5																
76/ 75																		13	13																
74/ 73																		31	31																
72/ 71																		33	33																
70/ 69																		74	74																
68/ 67																		37	37																
66/ 65																		100	100	2															
64/ 63																		339	339	10	1														
62/ 61																		283	283	61	3														
60/ 59																		290	290	72	6														
58/ 57																		354	355	175	19														
56/ 55																		568	568	234	55														
54/ 53																		568	569	473	114														
52/ 51																		629	629	503	280														
50/ 49																		487	488	877	161														
48/ 47																		602	602	874	434														
46/ 45																		825	828	963	1092														
44/ 43																		312	312	702	843														
42/ 41																		152	152	496	797														
40/ 39																		137	137	276	722														
38/ 37																		48	48	203	519														
36/ 35																		27	27	77	384														
34/ 33																		20	20	49	200														
32/ 31																		4	4	18	106														
30/ 29																					168														
28/ 27																					114														
26/ 25																					20														
24/ 23																					2														
22/ 21																					1														
TOTAL	1.322	2.229	4.19	7.12	9	7.5	4.0	2.2	.6	.2	.0							6061		6061	6061														

Element (X)	Z <sub>x</sub> <sup>1</sup>	Z <sub>x</sub>	X	σ <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature						
Ref. Num.	30228471	823159	69.815	117	6061	= 0 F	= 32 F	= 67 F	= 73 F	= 80 F	= 93 F	Total
Dry Bulb	16894955	317.27	52.3	7.364	6067			5	24.0	6.9		



## PSYCHROMETRIC SUMMARY

73-82

YEARS

**MONTH**

PAGE 1 2300-0500  
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point															
66/ 65					.4													3	3																
64/ 63			.4		.1													10	10																
62/ 61	.3		.8	1.1	.5	.1												22	27	5	5														
60/ 59		1.4	1.5	.3	.3													27	27	9	2														
58/ 57	.8	2.5	2.4	.4	.1													49	49	37	13														
56/ 55	1.1	2.2	2.5	2.3														102	102	43	44														
54/ 53	1.1	2.2	2.8	1.1	.1													129	129	108	50														
52/ 51	.1	5.1	2.8	.3														112	112	70	92														
50/ 49	.3	4.1	5.7	.5														83	83	134	43														
48/ 47	.1	7.4	5.2	.5														104	104	124	89														
46/ 45		4.2	6.1	.5														90	90	109	167														
44/ 43		2.2	1.5	.6														33	33	63	72														
42/ 41		.9	1.5	.1														20	20	53	90														
40/ 39		.1																1	1	18	52														
38/ 37																				12	30														
36/ 35																					11														
34/ 33																					13														
32/ 31																					1														
30/ 29																					1														
TOTAL	3.5	42.6	44.3	7.9	1.1													785		785	785														

Element (K)	Σ <sub>g</sub> <sup>1</sup>	Σ <sub>g</sub>	Σ	σ <sub>g</sub>	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	5351639	69447	82.1	6.756	785	≥ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	2102149	42452	51.5	4.739	785							90
Wet Bulb	1892742	38338	48.8	4.642	785							90
Dew Point	1699838	36256	46.2	5.728	785							90

## PSYCHROMETRIC SUMMARY

YEARS

JUN  
MONTH

PAGE 1

0600-0800  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

73-82

YEARS

**MONTANA**

PAGE 1 6900-11.0  
HOURS (L. S. T.)

2

2

73-82

**YEARS**

JUN  
MONTH

PAGE 1 1200-1400  
HOURS (L. S. T.)

USAFETAC FORM 0-26-5 (OL A)  
REvised PERIODIC EDITIONS OF THIS FORM ARE OBSOLETE



## PSYCHROMETRIC SUMMARY

L75621      ALCONBURY RAF UK  
STATION      STATION NAME

73-82

**YEARS**

140134

PAGE 1 1500-1700  
HOURS [ ]

[illegible]

## PSYCHROMETRIC SUMMARY

**JUN**

STATION

STATION NAME

**YEARS**

**MONTH**

PAGE 1 1870-2000  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																														TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	= 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point													
92/ 91												.3						2	2															
88/ 87												.1	.1					3	3															
84/ 83									.3	.1	.1							4	4															
82/ 81									.1	.3								3	3															
80/ 79									.1	.3								4	4															
78/ 77								.3	.5	.8		.1						13	13															
76/ 75						.3	.9	.5	.5	.5		.						17	17															
74/ 73						.5	.5	.3	.1	.1								12	12															
72/ 71			.1	.8	1.9	.5	1.5	.1										39	39															
70/ 69			.3	.1	1.9	1.2	1.4	.3										40	40	3														
68/ 67			.4		.9	.5	1.0	.1										23	23	4														
66/ 65		.4		.9	1.2	1.2	1.4	.3										41	41	23														
64/ 63		.4	.6	3.8	5.2	3.5	.9											111	111	27	10													
62/ 61		.6	2.1	2.1	3.6	1.2	.6											79	79	52	9													
60/ 59		.9	1.8	4.4	3.2	1.6	.1											86	86	52	10													
58/ 57	.1	1.6	1.7	4.0	1.7	.9	.1											78	78	97	40													
56/ 55	.1	1.4	2.2	5.2	1.3	.8												85	85	110	69													
54/ 53		1.2	3.2	2.7	1.4	.3												68	68	108	67													
52/ 51		.5	3.1	1.6	.4													43	43	97	72													
50/ 49		.1	.6	.6	.1													12	12	107	63													
48/ 47		.4	.3	.4														8	8	48	116													
46/ 45																				30	141													
44/ 43																				12	71													
42/ 41																				1	35													
40/ 39																					25													
38/ 37																					20													
36/ 35																					17													
34/ 33																					5													
32/ 31																					1													
TOTAL	.3	7.5	16.5	25.92	7.8	13.7	7.5	3.9	2.2	.6	.6	.4						771		771	771													

Element (X)	Σx'	Σx	X	σ <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	3317517	49393	64.1	14.107	771	≥ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	2948065	47335	61.4	7.383	771			18.7	6.8	1.9		90
Wet Bulb	2302877	41945	54.4	5.213	771			.8				90
Dew Point	1835747	37345	48.4	5.907	771		.1					90

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

35621 ALCONCURY RAF UK

73-82

JULY

PAGE 1 2100-2300  
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B./W.B.	TOTAL					
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	Dry Bulb	Wet Bulb	Dew Point																		
61/ 79											.2																						1	1				
78/ 77											.3	.2																					3	3				
76/ 75						.7					.2																						3	3				
74/ 73										.3	.2																						3	3				
72/ 71										.6																							4	4				
70/ 69						.3	1.1			.3																							11	11	1			
68/ 67							1.1			.5	.2	.2																					12	12	2			
66/ 65						.5	1.5			.5	.3	.5																					23	23	2			
64/ 63						.3	1.2			.5	2.3	1.2																					42	42	16	8		
62/ 61							1.8			3.9	1.7	1.2																						57	57	20	10	
60/ 59						.2	.8			4.1	3.9	1.4																						74	74	30	5	
58/ 57						.2	3.6			3.5	4.7	1.1																						87	87	50	14	
56/ 55							2.9			4.2	5.1	1.2																						88	88	80	59	
54/ 53						.2	.9			3.2	2.7	1.1																						73	73	85	63	
52/ 51							2.1			8.1	2.1	.3																						85	85	90	67	
50/ 49							1.7			2.7	.9	.5																						39	39	111	33	
48/ 47							1.4			2.6	2.3	.2																						40	40	82	100	
46/ 45							.6			1.9	.9																							19	19	87	118	
44/ 43							.2																											1	1	30	67	
42/ 41							.2																											1	1	18	43	
40/ 39																																					2	38
38/ 37																																					20	
36/ 35																																					15	
34/ 33																																					5	
32/ 27																																					1	
TOTAL							315	535	332	11.6	5.1	1.5	.3																					666	666	666		

Element (X)	Σ X'	Σ X	X	n	No. Obs.	Mean No. of Hours with Temperature							
Rel. Hum.	3648594	88698	73.1	111	516	666	± 0 F	± 32 F	± 67 F	± 73 F	± 80 F	± 93 F	Total
Dry Bulb	2151819	37643	56.5	6	31	666			5.0	1.4	.1		90
Wet Bulb	1618117	34547	51.9	5	215	666			.9				90
Dew Point	1539373	31767	47.7	6	26	666							90

Element (X)	$\Sigma X'$	$\Sigma X$	$\bar{X}$	$\sigma_x$	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Num.	3688594	88698	73.111	516	666	$\leq 0 F$	$\leq 32 F$	$\leq 47 F$	$\leq 73 F$	$\leq 80 F$	$\leq 93 F$	
Dry Bulb	21518.9	37643	56.5	6.331	666			5.0	1.4	.1		90
Wet Bulb	15101.7	34547	51.9	5.215	666			.9				90
Dew Point	15393.3	31767	47.7	6.26	666			.1				90

USAFETAC FORM 0-26-5 (OL A) MAY 64

## PSYCHROMETRIC SUMMARY

73-82

JUN

STAT 120

STATION NAME

**YEARS**

PAGE 1

411

ALL  
HOURS (1 - 5 - 7 -)

[illegible]

## PSYCHROMETRIC SUMMARY

73-82

\_\_\_\_\_ MONTH

PAGE 2

ALL  
HOURS (L.S.T.)

[illegible]

## PSYCHROMETRIC SUMMARY

**YEARS**

JUL  
MONTANA

PAGE 1 0000-0200  
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL			
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
72/ 71						.2				.2																							2	2			
70/ 69								.2				.2																					2	2			
68/ 67													.2																				2	2			
66/ 65				.2	.7	1.2		.2		.5	.2																						16	16			
64/ 63			.9	2.3	1.9		.3		.7																								35	35	4	2	
62/ 61	.3	1.2	7.3	2.4		.3																											67	67	12	5	
60/ 59	.3	2.6	5.9	2.8	1.2		.3																										76	76	45	10	
58/ 57	.3	5.6	4.7	4.7		.7																											92	92	79	34	
56/ 55	.9	7.5	7.3	2.4																														104	104	84	66
54/ 53	.2	5.3	4.3	1.7																														65	65	94	84
52/ 51	.5	1.7	7.7	.3																														55	55	99	88
50/ 49	.2	1.2	3.1	.2																														27	27	62	71
48/ 47		3.0	2.1																															18	18	57	61
46/ 45	.5	1.4	.5																															14	14	28	79
44/ 43																																				13	38
42/ 41																																					27
40/ 39																																					13
TOTAL	3.3	27.7	45.9	17.9	3.1	1.7	.3																										575	575	575		

Element (X)	$\Sigma x^2$	$\Sigma x$	$\bar{x}$	$\sigma_x$	No. Obs.	Mean No. of Hours with Temperature						
Ref. Num.						$\leq 0^\circ \text{F}$	$\leq 32^\circ \text{F}$	$\leq 67^\circ \text{F}$	$\leq 73^\circ \text{F}$	$\leq 80^\circ \text{F}$	$\leq 93^\circ \text{F}$	Total
Dry Bulb	3712369	45279	79.8	9.463	575							93
Wet Bulb	1849253	32497	56.5	4.692	575			1.0				93
Dew Point	1463147	28873	50.2	4.817	575							93

## PSYCHROMETRIC SUMMARY

YEARS

**MONTANA**

PAGE 1 C300-0500  
HOURS (L. S. T.)

Temp (F)	WEY BULB TEMPERATURE DEPRESSION (F)																				TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point				
46/ 65				.3		.1												3	3					
44/ 63			1.2	.3	1.2	.1												19	19	3				
47/ 61		.4	1.4	3.5	1.3													52	52	12	9			
41/ 59		.1	7.6	6.5	.5													78	78	25	10			
50/ 57		.8	4.9	6.6	1.8													112	112	71	36			
53/ 55		1.6	9.8	7.3	2.6													170	170	97	68			
54/ 53		1.1	6.9	8.7	1.3													143	143	154	109			
52/ 51		.4	3.8	7.5	.1													94	94	141	130			
57/ 49		.4	1.6	3.1														41	41	129	75			
48/ 47		.5	4.1	1.9														51	51	85	127			
46/ 45		.4	2.8	.4														28	28	57	137			
44/ 43			.6															5	5	19	53			
47/ 41			.1															1	1	4	35			
42/ 37																					8			
TOTAL	5.6	39.5	46.7	8.5	.3													797	797	797	797			

Element (X)	$\Sigma x^2$	$\Sigma x$	$\bar{x}$	$\sigma_x$	No. Obs.	Mean No. of Hours with Temperature						
Rel. Num.						≤ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	2391277	43527	59.6	4.211	797							93
Wet Bulb	2164655	41411	52.1	4.241	797							93
Dew Point	1988396	39650	49.7	4.462	797							93

## PSYCHROMETRIC SUMMARY

YEAR

**JUL**  
**MONT**

PAGE 1 3650-0800  
HOURS (L. S. T.)



## PSYCHROMETRIC SUMMARY

235621 ALCONBURY RAF UK  
STATION STATION NAME

73-82

**YEARS**

MONTH

PAGE 2 2950-1160  
HOURS 11-1-74

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point					
96/ 95												.1						1	1							
94/ 93												.1						2	2							
92/ 91							.1		.2	.1		.1						5	5							
90/ 79						.1			.1	.2								4	4							
78/ 77						.2	.3	.3	.3	.1								11	11							
76/ 75					.6	.1	.6	.7	.1									18	18							
74/ 73				.4	.4	1.2	.8	.2	.2									30	30							
72/ 71			.1	.9	.3	1.2	.3	.2										33	33							
70/ 69			.1	1.1	1.9	2.4	.4											53	53	2						
68/ 67			.2	.2	1.9	1.6	.1	.1										37	37	12						
66/ 65		.6	1.3	3.8	3.7	2.7	.7											105	105	19	1					
64/ 63		1.1	2.2	7.4	6.7	4.6	.3											206	206	65	26					
62/ 61		.9	3.6	5.6	3.9	2.7	.2											145	145	91	21					
60/ 59	.1	1.3	2.9	2.4	3.9	.4												99	99	122	40					
58/ 57		.9	2.1	3.9	1.3	.1												74	74	166	86					
56/ 55	.2	1.2	1.6	1.6														41	41	142	112					
54/ 53		.9	.9	.1														17	17	119	109					
52/ 51		.4	.8															11	11	109	145					
50/ 49		.1																1	1	44	71					
48/ 47																				2	108					
46/ 45																					95					
44/ 43																					58					
42/ 41																					17					
40/ 39																					4					
TOTAL	.3	7.3	16.3	27.3	25.3	15.8	3.8	1.7	.9	.7	.7	.2						853	893	893						

Element (X)	Σx'	Σx	X	σ <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	4.89142	594.4	66.5	12.415	893	≥ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	36347.9	56747	63.5	5.666	893			20.2	7.9	1.1		93
Wet Bulb	2913708	50970	57.0	4.220	893			1.5				93
Dew Point	2413353	46199	51.7	5.107	893							93

## PSYCHROMETRIC SUMMARY

73-87

JUL

STATION

STATION NAME

YEARS

**MONTH**

PAGE 1 1200-1400  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31	Dry Bulb	Wet Bulb	Dew Point															
92 / 92																		1	1																
91 / 89														.1	.1	.1		3	3																
88 / 87												.2	.2	.1				5	5																
86 / 85											.1	.3	.1		.2			7	7																
84 / 83											.5		.1	.1				7	7																
82 / 81							.3	.5		.1	.3	.1						8	8																
79 / 79						.3	.5	.8	.5	.2	.2	.2						21	21																
78 / 77					.1	.4	.8	.8	.5									24	24																
76 / 75					.1	1.5	1.9	.9	.1		.1							42	42																
74 / 73				.2	.8	1.1	2.1	.9	.4									49	49																
72 / 71					.1	1.4	2.3	3.2	.7	.1								71	71																
71 / 69			.1	.4	2.2	3.9	2.3	.9										93	93	7															
65 / 67		.1	.5	.4	1.9	2.1	1.2	.1										58	58	13															
66 / 65		.4	.7	3.5	3.5	3.7	1.2											119	119	50	2														
64 / 63	1.1	2.2	5.6	4.1	5.9	1.6												196	196	82	21														
62 / 61	1.2	.3	3.4	3.3	2.0	.3												101	101	142	35														
60 / 59	.1	1.5	1.6	1.7	.4													49	49	140	37														
58 / 57	.7	1.3	1.1	.2														27	27	164	89														
56 / 55	.7	1.3	.7															71	71	117	96														
54 / 53	.2	.8	.4															13	13	123	121														
52 / 51		.4																4	4	54	153														
50 / 49																				24	67														
48 / 47																					95														
46 / 45																					128														
44 / 43																					57														
42 / 41																					24														
40 / 39																					8														
38 / 35																					1														
34 / 33																					2														
TOTAL	4.5	9.1	18.4	19.1	23.7	15.3	4.4	1.9	.9	1.3	.9	.5	.3	.4				916	916	916															
																		916		916															

Element (X)	Z <sub>x'</sub>	Z <sub>x</sub>	X	%	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	3442334	54724	59.7	13.750	916	± 0 F	± 32 F	± 67 F	± 73 F	± 80 F	± 93 F	
Dry Bulb	4128733	61199	66.8	6.608	916			39.2	17.0	4.2	.1	93
Wet Bulb	3127745	53383	58.3	4.268	916			2.0				93
Dew Point	2464680	47260	51.6	5.367	916							93

## PSYCHROMETRIC SUMMARY

35621	ALCONBURY RAF UK
STATION	STATION NAME

73-82

YEARS

**MONITOR**

PAGE 1 1570-1740  
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point															
94/ 93																.7		2	2																	
92/ 91																.1		3	3																	
90/ 89														.1	.1	.1	.2	3	3																	
88/ 97												.6	.2					7	7																	
86/ 85											.1	.1			.2	.1		5	5																	
84/ 83											.2	.1		.1				9	9																	
82/ 81							.1	.2	.2	.3	.1	.1						14	14																	
80/ 79							.7	.1	.2	.3								20	20																	
78/ 77						.2	1.2	1.6		.1								28	28																	
76/ 75					.1	1.0	2.7	1.1		.1	.2							49	49																	
74/ 73			.4	.9	1.3	2.0	1.6	.3	.1									60	60																	
72/ 71			.3	1.3	2.2	2.1	1.6	.1										69	69																	
70/ 69		.4	.6	3.3	3.8	3.1	1.1											110	110	7																
68/ 67			.2	.3	1.2	1.7	1.3	.1										49	49	13																
66/ 65		.1	.6	1.0	3.1	2.5	1.9	.2										89	89	64	1															
64/ 63	.3	.4	2.1	6.4	3.7	5.3	1.8											178	178	96	25															
62/ 61	.2	.7	1.2	2.2	3.9	1.3	.6											91	91	119	27															
60/ 59		.9	1.1	1.1	1.7	.3	.1											47	47	145	36															
58/ 57		.4	.8	1.6	.1													26	26	159	87															
56/ 55		.7	1.2	.4														19	19	95	115															
54/ 53		.2	1.2	.1														12	12	116	107															
52/ 51		.1	.1															2	2	63	133															
50/ 49																				15																
48/ 47																					85															
46/ 45																					117															
44/ 43																					42															
42/ 41																					36															
40/ 39																					12															
38/ 37																					2															
36/ 35																					2															
TOTAL	.6	3.6	8.5	15.12	.22	.4	17.2	8.7	.8	1.9	1.2	1.0	.4	.4	.6	.2		892	892	892																

Element (X)	$\Sigma x'$	$\Sigma x$	$\bar{x}$	$s_x$	No. Obs.	Mean No. of Hours with Temperature						Total
Ref. Num.						$\leq 0$ F	$\leq 32$ F	$\leq 67$ F	$\leq 73$ F	$\leq 80$ F	$\leq 93$ F	
Dry Bulb	3228761	52299	58.4	4.4	892							
Wet Bulb	4113666	60250	67.5	6.986	892			44.6	20.9	5.2	.2	93
Dew Point	3073054	52214	58.5	4.724	892			2.1				92
	2396234	45976	51.5	5.452	892							92

## PSYCHROMETRIC SUMMARY

73-82

YEARS

JUL  
MONTH

PAGE 1

1800-2000  
HOURS (L. S. T.)

[illegible]

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

36621 ALCONBURY RAF UK

73-82

YEARS

JULI  
MONTH

PAGE 1 2100-2300  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	Dry Bulb	Wet Bulb	Dew Point															
70/70																																1	1		
70/75																																2	2		
70/73																																3	3		
70/71																																10	10		
70/69																																24	24		
66/67																																18	18	1	
66/65																																36	36	2	
64/63																																92	92	15	6
64/61																																95	95	41	6
62/59																																104	104	77	17
62/57																																116	116	112	61
60/55																																75	75	112	134
60/50																																62	62	111	89
52/51																																27	27	83	93
50/49																																6	6	85	58
46/47																																4	4	26	69
45/45																																		9	91
44/43																																		1	52
42/41																																			25
42/39																																			4
TOTAL	1.3	14.7	34.4	31.7	12.1	3.6	1.6	.4	.6	.1																						675	675	675	

Element (K)	Σ <sub>g</sub> <sup>1</sup>	Σ <sub>g</sub>	Σ	σ <sub>g</sub>	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	3735825	49649	73.6	11.158	675	≥ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	2418728	40256	59.6	5.55	675			8.0	.8	.1		9.3
Wet Bulb	2042773	37127	54.9	4.160	675			.1				9.3
Dew Point	1763039	34341	50.9	4.260	675							9.3

Element (X)	Σ x'	Σ x	Σ	Σ	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	3735825	49649	73.6	11.1	675	≥ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	2418728	40256	59.6	5.5	675			8.0	8.6	1		93
Wet Bulb	2042773	37127	54.9	4.1	675			1				93
Dew Point	1763039	34341	50.9	4.2	675							93

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## (

**YEARS**

JUL  
MONTH

PAGE 1

ALL

ALL  
HOURS (L. E. T.)

**USAFETAC**

## PSYCHROMETRIC SUMMARY

C35621	ALCONBURY RAF UK
STATION	STATION NAME

73-82

YEARS

**ALL MONTH**

PAGE 1 ~~0000-0200~~  
~~MOUSE (-S-T)~~

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL			
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
76/ 75																																		1	1		
74/ 73																																		1	1		
72/ 71																																		5	5		
70/ 69																																		7	7		
68/ 67																																		12	12		
66/ 65																																		13	13		
64/ 63																																		49	49	6	1
62/ 61																																		76	76	32	13
60/ 59																																		76	76	47	21
58/ 57																																		89	89	97	42
56/ 55																																		91	91	95	96
54/ 53																																		85	85	84	81
52/ 51																																		52	52	80	70
50/ 49																																		25	25	78	85
48/ 47																																		12	12	49	73
46/ 45																																		3	3	18	69
44/ 43																																				5	22
42/ 41																																					19
40/ 39																																				5	
TOTAL	5	24	34	6	18	8	4	4	7	7																								597	597	597	

Element (X)	Σx'	Σx	X̄	s <sub>x</sub>	No. Obs	Mean No. of Hours with Temperature						Total
Rel. Hum.	3888768	47854	84.2	9.422		≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	1580252	34258	57.4	4.916	597			4.1	1.7			93
Wet Bulb	1750623	32221	54.0	4.413	597							93
Dew Point	1577185	30553	51.2	4.769	597							93





## PSYCHROMETRIC SUMMARY

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SIAT:20

ALCONBURY RAF UV

73-82

AUG  
MONTH

PAGE 1

5600-08

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL O.B./W.B.	TOTAL			
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		31	Dry Bulb	Wet Bulb	Dew Point
74/ 73								.1	.1																								2	2		
72/ 71								.3																								3	3			
70/ 69					.2	.2	.5																									8	8			
68/ 67			.1			.1	.5																									6	6	1		
66/ 65			.3	.6	1.3	.6																									24	24	3			
64/ 63		.5	1.1	3.1	4.2	.7																									91	91	16			
62/ 61		.2	2.5	4.7	3.1	.3																									95	95	41			
60/ 59		.1	4.2	7.2	2.1	.1																									118	118	75			
58/ 57	.2	6.3	7.3	3.1	.2																										168	168	137			
56/ 55	1.7	5.9	6.5	3.6																											148	148	152			
54/ 53	.7	3.2	5.9	1.4																											97	97	139			
52/ 51	.6	1.8	3.3	.1																											51	51	125			
50/ 49	.1	1.0	1.6																												24	24	107			
48/ 47	.1	1.8	.8																												24	24	41			
46/ 45	.1	.2	.3																												6	6	73			
44/ 43		.2																													2	2	7			
42/ 41																																		1		
40/ 39																																				
38/ 37																																				
TOTAL	.0	1.30	3.41	5.18	.6	3.3	.1																									867	867	867		

Element (X)	Σg'	Σg	Σ	g <sub>2</sub>	No. Obs.	Mean No. of Hours with Temperature							
Rel. Hum.	58381.4	7.666	81.5	9.267	867	10 F	11 F	12 F	13 F	14 F	15 F	Total	
Dry Bulb	2879885	49799	57.4	4.639	867				2.0	.2		23	
Wet Bulb	2568821	47.49	54.3	4.257	867				.1			23	
Dew Point	2337600	48.36	51.7	4.678	867							23	

## PSYCHROMETRIC SUMMARY

ALCONEUS, RAF, ON  
STATION

12. 12.000

AU  
MENT

PAGE 1 2920-1140  
HMMH 11-1-11

[illegible]

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

15521 ALCONBURY RAF UK STATION NAME

73-82 YEARS

AUG MONTH

PAGE 1 1200-1400 HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL	TOTAL					
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point		
91/ 91																																		3	3			
89/ 89																																		3	3			
87/ 87																																		5	5			
85/ 85																																		3	3			
83/ 83																																		9	9			
81/ 81																																		13	13			
79/ 79																																		21	21			
77/ 77																																		46	46			
75/ 75																																		38	38			
73/ 73																																		52	52			
71/ 71																																		89	89	1		
69/ 69																																		138	138	18		
67/ 67																																		64	64	17	1	
65/ 65	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	103	103	40	3
63/ 63	.1	.4	1.3	5.6	3.5	7.5	2.5																												195	195	74	27
61/ 61		1.4	2.3	1.6	2.2	1.1	.5																												83	83	183	22
59/ 59		.6	1.2	.5	.3	.3																													28	28	149	41
57/ 57		.2	1.2	.1	.4																														22	22	188	84
55/ 55		.4	.1	.5																															10	10	95	112
53/ 53		.4																																	4	4	126	139
51/ 51			.1																																1	1	27	144
49/ 49																																				16	72	
47/ 47																																					69	
45/ 45																																					118	
43/ 43																																					63	
41/ 41																																					23	
39/ 39																																					7	
37/ 37																																					5	
TOTAL	.2	4.3	7.7	13.3	15.1	23.1	18.1	10.1	3.3	1.9	1.7	1.0	.2																					930	930	930	930	

Element (X)	$\Sigma x'$	$\Sigma x$	$\Sigma$	$\Sigma s$	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	326.544	53488	57.516	276	930	$\pm 0 F$	$\pm 32 F$	$\pm 67 F$	$\pm 73 F$	$\pm 80 F$	$\pm 93 F$	Total
Dry Bulb	4343544	63280	68.0	6.381	930			48.4	19.3	5.2		93
Wet Bulb	3232925	54697	58.8	4.147	930			3.6				93
Dew Point	2509932	48748	51.7	5.446	930			.1				93

USAFETAC FORM 0-26.5 (O. A.) REVISIONS PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

**YEARS**

AUG  
MONTH

PAGE 1 1570-1740  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

73-82

YEARS

22  
MONTH

PAGE 1 1800-2300  
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																														TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	+31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point													
98/ 87											.4	.1						4	4															
86/ 85											.1							1	1															
84/ 83									.1	.4								4	4															
82/ 81									.3		.1							3	3															
80/ 79									.3	.4	.1							9	9															
78/ 77						.2	.4	1.0	.6	.4								21	21															
76/ 75					.1	.4	.2	.2	.1	.3								21	21															
74/ 73			.4	.1	1.1	1.8	.2	.4										37	37															
72/ 71		.4	1.7	1.8	1.4	.8	.6											45	45															
70/ 69		.5	.2	1.9	2.3	2.2	.4		.1									63	63															
68/ 67		.5	.4	1.1	2.3	.2												41	41	15														
66/ 65		.3	1.2	3.4	3.5	2.2	1.5	.1										94	94	24	1													
64/ 63	.1	1.5	2.6	5.2	5.8	4.3	.2											162	162	56	11													
62/ 61	.5	.8	2.4	3.3	4.1	.2	.1											54	54	91	31													
60/ 59		1.5	3.5	2.8	2.1	.5												63	83	130	57													
58/ 57		2.1	2.1	2.1	.8	.4												60	67	143	70													
56/ 55	.4	.6	1.6	1.6	.1													35	35	125	112													
54/ 53		.6	.8		.4													14	14	116	83													
52/ 51					.3													2	2	58	128													
50/ 49																				26	70													
48/ 47																				5	65													
46/ 45																				4	99													
44/ 43																					36													
42/ 41																					16													
40/ 39																					9													
38/ 37																					5													
TOTAL	1.1	7.4	15.1	20.6	21.1	16.7	9.8	4.2	2.4	1.5	.9	.1						793	793	793	793													

Element (X)	2 <sub>g</sub> <sup>1</sup>	2 <sub>g</sub>	X	g <sub>2</sub>	No. Obs.	Mean No. of Hours with Temperature						
Rel. Num.	3397912	51634	63.8	18.595	793	+ 0 F	+ 32 F	+ 67 F	+ 73 F	+ 80 F	+ 92 F	Total
Dry Bulb	3365569	51417	64.8	6.333	793			29.2	11.7	2.5		93
Wet Bulb	2626327	45531	57.4	9.222	793			1.8				93
Dew Point	2130928	40902	51.6	5.187	793							9

## PSYCHROMETRIC SUMMARY

75521	ALCONBURY RAF UK
STATION	STATION NAME

73-82 \_\_\_\_\_ YEARS

AUG  
MONTH

PAGE 1      2100-2300  
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point															
78/ 77																		2	7																
76/ 75							.1	.6										5	5																
74/ 73						.1	.4	.1	.1									6	6																
72/ 71				.1	.6	.4	.3	.1										11	11																
70/ 69			.2	.6	.9	.6												16	16																
68/ 67			.1	1.2	.7	.4	.6											16	16																
66/ 65		.1	1.6	1.6	2.6	.3	.3											45	45	3															
64/ 63	.4	1.9	2.5	4.6	3.7	1.5	.1											97	97	32	5														
62/ 61		1.5	4.5	4.8	3.7	.1	.1											98	98	41	14														
60/ 59	.4	3.6	6.4	6.4	.9													122	122	70	39														
58/ 57	.1	4.4	5.1	4.5	.4													100	100	124	52														
56/ 55	.7	1.9	5.1	5.2	.1													90	90	124	98														
54/ 53		1.5	4.5	1.6														52	52	104	80														
52/ 51		.1	2.6	.4	.7													23	23	81	113														
50/ 49		.7	.1															3	3	82	61														
48/ 47			.4															3	3	19	76														
46/ 45																				6	113														
44/ 43																				3	20														
42/ 41																					12														
40/ 39																					8														
38/ 37																					1														
TOTAL	1.7	14.9	33.1	33.8	12.5	4.2	2.2	.7										689		689	689														

Element (X)	$\Sigma X^2$	$\Sigma X$	$\bar{X}$	$\sigma^2$	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	7867243	51731	74.1	11.285	689	≤ 6 F	≥ 32 F	≤ 67 F	≥ 73 F	≤ 86 F	≥ 93 F	Total
Dry Bulb	2491164	41284	59.9	5.740	689			7.6	1.8			93
Wet Bulb	2111305	38031	55.2	4.193	689							93
Dew Point	1833323	35385	51.4	4.831	689							93

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73-62

YEAR

SEP  
MONTH

PAGE 1

C300-C500  
HOURS (L. S. T.)

(

THE WILD D. THE VARIOUS FORMS OF THE FISHES AND OTHERS

**0-20-5 (OL A)**

1982 44

**USAFETAC**

## PSYCHROMETRIC SUMMARY

YEARS

453

PAGE 1 0600-0800  
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B./W.B.	TOTAL			
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		31	Dry Bulb	Wet Bulb	Dew Point
66/ 65					.1																													1	1	
64/ 63				.9	.9	1.5																											27	27		
62/ 61			.6	4.3	1.0	.7																											50	50	9	
60/ 59			2.1	3.7	.7	.1																											54	54	21	
58/ 57			4.4	4.8	3.7																												91	91	68	
56/ 55	.4	3.2	4.8	2.7																													125	125	65	
54/ 53	1.0	4.5	6.7	1.6																													113	113	128	
52/ 51	.7	4.8	3.7	.9	.1																												118	118	110	
50/ 49	.1	3.1	3.6																														58	58	125	
48/ 47	.4	5.5	3.2	.4																													77	77	106	
46/ 45	.5	3.9	3.2																														54	54	83	
44/ 43	.1	2.1	1.0																														26	26	36	
42/ 41		1.7	1.7																														16	16	34	
40/ 39		.4																															3	3	14	
38/ 37		.6																															3	3	6	
36/ 35		.1																															1	1	3	
34/ 33		.1																															1	1	1	
32/ 31																																			1	1
30/ 29																																			1	1
28/ 27																																			1	1
TOTAL	3.241	245.1	9.9	.5																													818	818	818	

Element (K)	$\Sigma T_1$	$\Sigma T_2$	$\Sigma T$	$\Sigma P$	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	56.8966	674.18	82.4	8.018	818	$\leq 6 F$	$\leq 32 F$	$\leq 67 F$	$\leq 73 F$	$\leq 80 F$	$\leq 93 F$	
Dry Bulb	2328214	43428	53.1	5.260	818							90
Wet Bulb	2092625	41171	50.3	5.001	818			.1				90
Dew Point	1895695	39118	47.8	5.533	818		.3					90

## PSYCHROMETRIC SUMMARY

**YEARS**

558

**MONTY M**

PAGE 9

~~2920-1100~~  
~~HO403 (1-5-7)~~

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-	16-	17-	18-	19-	20-	21-	22-	23-	24-	25-	26-	27-	28-	29-	30-	= 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point						
76 / 75						.1	.1																		2	7									
74 / 73					.1	.1	.2																		4	4									
72 / 71					.2		.1																		3	3									
70 / 69				.1	1.2	.7	.2	.1																	20	20									
68 / 67			.4	.7	.7	.4																			18	18									
66 / 65			.6	2.9	2.2	1.1	.5																		62	62	2								
64 / 63		.7	2.7	8.3	4.7	4.2	.4																		173	173	11								
62 / 61	.2	.8	4.1	3.2	5.2	.6	.1																		120	120	46	13							
60 / 59	.2	.9	2.4	4.9	2.8	.5																			105	105	65	18							
58 / 57	.1	2.5	3.5	4.7	1.6	.7																			112	112	127	54							
56 / 55	.1	2.8	3.5	3.2	1.3	.1																			93	93	135	34							
54 / 53	.1	.8	3.7	2.1	1.1	.1																			68	68	151	99							
52 / 51		.8	3.3	.6	.4																				43	43	110	107							
50 / 49		.2	.4	.7	.1																				12	12	65	65							
48 / 47		.6	.5	.4																					12	12	62	130							
46 / 45	.2	.4	.5																						3	8	21	136							
44 / 43		.1																							1	1	17	57							
42 / 41		.2																							1	1	3	39							
40 / 39																												2	26						
38 / 37																													20						
36 / 35																													8						
34 / 33																													1						
TOTAL	.91	.525	.831	.22	.7	8.9	2.0	.1																		857	857	857	857						

Element (X)	Σx'	Σx	Σ	σ <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	93219.6	63024	70.0	1.733	857	= 0 F	= 32 F	= 67 F	= 73 F	= 80 F	= 93 F	Total
Dry Bulb	3050799	59.35	59.4	5.242	857			4.9				90
Wet Bulb	2517578	46288	54.7	4.520	857							90
Dew Point	2111345	42277	49.3	5.486	857							90

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

35621 ALCONSBURY RAF UK

73-87

SEP

STATION

STATION NAME

YEARS

MONTH

PAGE 1 1200-1400  
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																																	TOTAL D.B./W.B.	TOTAL		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Dry Bulb	Wet Bulb	Dew Point		
81/ 81																																	2	2			
80/ 79																																	1	1			
78/ 77																																	5	5			
76/ 75																																	13	13			
74/ 73																																	27	27			
72/ 71																																	45	45			
70/ 69																																	77	77	1		
68/ 67																																	46	46	5		
66/ 65																																	96	96	8	1	
64/ 63																																	223	223	37	3	
62/ 61																																	91	91	94	15	
60/ 59																																	71	71	96	21	
58/ 57																																	70	70	125	55	
56/ 55																																	53	53	135	78	
54/ 53																																	32	32	162	94	
52/ 51																																	14	14	76	94	
50/ 49																																	2	2	65	44	
48/ 47																																	5	5	49	114	
46/ 45																																	1	1	18	156	
44/ 43																																			3	79	
42/ 41																																				45	
40/ 39																																				33	
38/ 37																																				19	
36/ 35																																				16	
34/ 33																																				6	
32/ 31																																				1	
TOTAL																																			874	874	874

Element (X)	$\Sigma x^2$	$\Sigma x$	$\bar{x}$	$s^2$	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	33143.9	52675	67.3	12.648	874	$\leq 0 F$	$\leq 32 F$	$\leq 47 F$	$\leq 73 F$	$\leq 80 F$	$\leq 93 F$	Total
Dry Bulb	3532661	55337	63.3	5.765	874			22.2	4.9	.3		93
Wet Bulb	2706941	48469	55.5	4.668	874			.6				90
Dew Point	2111248	42630	48.8	6.048	874		.1					90

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

35521	ALCONBURY RAF UK
STATION	STATION NAME

73-82

**YEARS**

SEE  
MONTH

PAGE 1 1500-1700  
HOURS (15-17)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point															
82/ 81																		3	3																
78/ 77																		7	7																
76/ 75									.0	.4	.1	.1	.1	.1				12	12																
74/ 73								.1	.7	1.2	.7	.1	.4					27	27																
72/ 71					.2	.6	1.6	2.7	.8	.1	.1							53	53																
71/ 69				.2	.2	1.4	4.6	1.6	.8	.2								78	78																
69/ 67					1.4	1.4	2.1	.4	.1									46	46	3															
66/ 65		.1	1.1	3.3	2.1	1.8	2.2	.2										92	92	14															
64/ 63			.6	4.5	3.8	8.9	2.5	.7										176	176	29	5														
62/ 61		.2	1.5	1.6	6.2	2.6	.9											112	112	91	6														
60/ 59		.7	.5	2.1	2.1	1.3	.9											63	63	93	20														
58/ 57		.8	2.1	2.7	1.6	1.2	.4											75	75	117	43														
56/ 55		.6	1.1	1.5	.1	.4												48	48	114	74														
54/ 53		.1	1.8	1.2	.8	.4												36	36	174	84														
52/ 51		.2	.5	.5	.1													11	11	81	96														
50/ 49			.5	.2	.1													7	7	63	60														
48/ 47		.2	.2	.2	.1													7	7	48	99														
46/ 45																				20	151														
44/ 43																				6	74														
42/ 41																				3	61														
40/ 39																					36														
38/ 37																					16														
36/ 35																					15														
34/ 33																					5														
32/ 31																					4														
TOTAL		2.6	12.6	18.3	22.6	25.3	14.8	4.9	.7	.6	.1							853	853		853														

Element (X)	$\Sigma x^1$	$\Sigma x$	$\Sigma$	$\Sigma^2$	No. Obs.	Mean No. of Hours with Temperature						
Rel. Num.						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	213437	53659	59.4	12.151	853							90
Wet Bulb	3448223	53921	63.3	6.116	853			23.8	5.2	.3		92
Dew Point	2624675	47141	55.3	4.775	853							92
	2027055	41265	48.4	6.013	853							92

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

35521 ALCONBURY RAF UK

75-87

SEP

STATION

STATION NAME

YEARS

MONTH

PAGE 1 1800-2000

HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																																	TOTAL D.B./W.B.	TOTAL		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Dry Bulb	Wet Bulb	Dew Point		
74/ 77																																	1	1			
74/ 75																																	1	1			
74/ 73																																	2	3			
74/ 72																																	3	3			
74/ 69																																	19	19			
68/ 67																																	22	22	1		
66/ 65																																	48	48	1		
64/ 63																																	123	123	3	1	
62/ 61																																	101	101	34	2	
60/ 59																																	79	79	64	11	
58/ 57																																	96	96	97	30	
56/ 55																																	82	82	95	55	
54/ 53																																	58	58	116	81	
52/ 51																																	49	49	97	92	
50/ 49																																	19	19	101	62	
48/ 47																																	13	13	61	63	
46/ 45																																	13	13	35	144	
44/ 43																																	3	3	14	71	
42/ 41																																	1	1	9	55	
40/ 39																																			5	19	
38/ 37																																			1	36	
36/ 35																																				6	
34/ 33																																				6	
TOTAL																																		734	734	734	

Element (X)	$\Sigma x'$	$\Sigma x$	$\bar{x}$	$s_x$	No. Obs.	Mean No. of Hours with Temperature					Total	
Rel. Hum.	3456416	49762	67.8	17.754	734	$\leq 0 F$	$\leq 32 F$	$\geq 67 F$	$\geq 72 F$	$\geq 80 F$	$\geq 93 F$	
Dry Bulb	2569851	43231	58.9	5.679	734			6.0	.6			90
Wet Bulb	2088273	38990	53.1	4.835	734			.1				90
Dew Point	1712844	35212	48.0	5.677	734							90

USAFETAC FORM 0-26-5 (OL A) 1-64  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

2

## YEARS

73-82

555  
MONTN

PAGE : 2300-2300  
HOURS (L. S. T.)

USAFETAC  
FORM  
0-26.5 (OL A)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

75621 ALCONBURY PAF UK

73-87

SEP

STATION

STATION NAME

YEARS

MONTH

PAGE 1

ALL

HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																																	TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	Dry Bulb			Wet Bulb			Dew Point													
91																																	5		5		
90																																	1		1		
89																																	13		13		
88																																	28		28		
87																																	61		61		
86																																	104		104		
85																																	195		195	1	
84																																	133		133	9	
83																																	312		312	23	
82																																	800		800	84	
81																																	604		604	266	
80																																	513		513	429	
79																																	660		660	269	
78																																	697		697	473	
77																																	584		584	620	
76																																	499		499	747	
75																																	241		241	468	
74																																	284		284	747	
73																																	201		201	1081	
72																																	92		92	545	
71																																	54		54	429	
70																																	14		14	256	
69																																	5		5	158	
68																																	1		1	99	
67																																	1		1	35	
66																																				11	
65																																				5	
64																																				1	
TOTAL	1.7	16.2	31.2	19.2	13.1	10.0	4.9	1.3	.7	.1	.7																						6102	6102	6102		

Element (X)	Z <sub>1</sub>	Z <sub>2</sub>	I	F <sub>s</sub>	No. Obs.	Mean No. of Hours with Temperature					Total
Rel. Hum.	3256794	437834	71.8	1.743	6102	≤ 0 F	≤ 32 F	≤ 47 F	≤ 73 F	≤ 80 F	≤ 93 F
Dry Bulb	20606372	352740	57.7	6.969	6102			63.7	12.7	.7	
Wet Bulb	17050618	320930	52.6	5.303	102			1.2			
Dew Point	14326235	293603	48.1	5.715	102		2.7				

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



## PSYCHROMETRIC SUMMARY

**YEARS**

GCI  
MONTH

PAGE 1

~~3020-6200~~  
NOV 15 1965

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	= 31	Dry Bulb	Wet Bulb	Dew Point															
64/ 63	.1		.5															4	4	1	1														
62/ 61			.8	.2														6	6																
60/ 59		.5	.7	.2														7	7	5															
58/ 57		1.0	2.2	.4														23	23	8	4														
56/ 55	.7	3.2	2.5	.4														38	38	22	14														
54/ 52		2.2	5.2	1.4	.2													50	50	31	19														
52/ 51		2.7	5.6	.2	.2													44	44	30	23														
50/ 49	.1	4.7	5.1	.5														60	60	61	33														
48/ 47	.4	4.2	6.3	.9														65	65	56	45														
46/ 45	.7	7.8	5.8	.4														81	81	78	62														
44/ 43	.2	9.9	3.4	.4														77	77	77	55														
42/ 41	.2	6.5	2.5	.2														52	52	86	78														
40/ 39	.2	3.2	.4															21	21	44	85														
38/ 37	.5	2.2																15	15	31	57														
36/ 35		1.3	.5															10	10	13	31														
34/ 33		.2																1	1	8	30														
32/ 31																				3	7														
30/ 29																					7														
28/ 27																					1														
26/ 25																					2														
TOTAL	3.6	49.5	41.5	5.1	.4													554	554	554	554														

Element (X)	$\Sigma x^1$	$\Sigma x$	$\bar{x}$	$\sigma_x$	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	3788385	456.7	82.3	7.827	554	< 0 F	> 32 F	> 67 F	> 73 F	> 80 F	> 93 F	Total
Dry Bulb	1282322	26460	47.8	5.796	554							93
Wet Bulb	11536.5	25093	45.3	5.551	554			.5				93
Dew Point	1024889	23567	42.6	6.111	554		2.9					93

## PSYCHROMETRIC SUMMARY

**YEARS**

05

PAGE : 7370-0500  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point															
63	.1		.4															4	4	1	1														
62		.3	.8															8	8																
61		.6	1.3															10	10	5															
60	.5	1.4	1.9	.3														23	23	16	8														
59	.6	2.1	2.7	.5														49	49	16	21														
58	.5	2.9	3.2															68	68	45	25														
57	.6	4.3	4.3	.6	.1													78	78	55	32														
56	1.1	3.9	2.5	.8														65	65	97	38														
55	.9	5.9	2.4	.6														79	79	78	84														
54	1.1	9.4	6.7	.3														139	139	101	119														
53	.6	5.7	4.1	.1														84	84	95	75														
52		7.2	3.7	.6														86	86	103	77														
51	.1	4.6	.9															45	45	64	91														
50	.4	1.8	1.7															25	25	57	84														
49	.1	2.8	.1															24	24	24	53														
48	.1	.6	.4															9	9	31	35														
47																				5	20														
46																				1	25														
45																					5														
44																					3														
43																					3														
TOTAL	6.454	435.2	3.9	.1														796	796	796	796														

Element (X)	Σx²	Σx	Σ	σ <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	5683367	66931	84.1	8.358	796	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Dry Bulb	1793769	37481	47.1	6.331	796							93
Wet Bulb	1632249	35737	44.9	5.914	796			.9				93
Dew Point	1470546	33810	42.5	6.585	796		6.2					93

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

5521 ALCONBURY RAF UK  
STATION

73-80

YEARS

OCT  
MONTH

PAGE 1 2603-0810  
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL	TOTAL					
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point		
64/ 63					.1		.1																										2	2				
52/ 61				.1	.7																												7	7				
50/ 59			1.1	1.4																													20	20	2			
50/ 57		.4	1.1	.6	.1		.1																										18	18	22	8		
56/ 55		.6	3.5	2.1	.4																												53	53	72	71		
54/ 53		.7	3.5	3.6	.4																												66	66	85	26		
52/ 51		.6	3.7	4.9																														75	75	63	48	
50/ 49		.6	3.5	2.0	.4	.2																												55	55	70	35	
48/ 47		.6	5.7	4.9	.7																													98	98	88	66	
46/ 45		.5	5.6	7.8	.5																													141	141	86	113	
44/ 43		.4	5.4	5.7	.2																													95	95	110	57	
42/ 41			5.3	2.8	.5																													70	70	100	93	
40/ 39		.1	4.1	1.1	.2																													45	45	72	108	
38/ 37		.5	1.2	1.5																														26	26	54	75	
36/ 35		.1	1.4	.7																														18	18	24	58	
34/ 33		.6	.7	.9																														18	18	34	40	
32/ 31			.2																																2	2	16	14
30/ 29																																					1	27
28/ 27		.2																																	2	2	2	20
26/ 25																																					6	
24/ 23																																					1	
TOTAL	6.0	4.5	2.4	0.8	3.7	.2																												811	811	811		

Element (X)	2x'	2x	I	σ <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	5648930	67132	83.7	8.520	811	10 F	32 F	67 F	73 F	80 F	93 F	Total
Dry Bulb	1821378	18109	47.7	6.198	811		.5					93
Wet Bulb	1647633	36211	44.6	6.168	811		2.2					93
Dew Point	1472556	34096	42.0	6.287	811		7.8					93

Element (X)	2x'	2x	I	°	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	5698930	67332	83.7	8.520	811	10 F	12 F	17 F	23 F	30 F	35 F	
Dry Bulb	1821378	38109	47.7	6.198	811							93
Wet Bulb	1647633	36211	44.6	6.168	811							93
Dew Point	1472556	38096	42.0	6.087	811							93

USAFETAC FORM 0-26-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



## PSYCHROMETRIC SUMMARY

72-82

YEARS

GC I  
MONTH

PAGE 1 1250-1460  
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																											TOTAL O.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	>31	Dry Bulb	Wet Bulb	Dew Point											
76/ 75								.4										3	3												
74/ 73							.1	.1										2	2												
72/ 71							.1	.1										2	2												
70/ 69							.2	.1										3	3												
68/ 67						.2												2	2												
66/ 65				.6	.8	.1												13	13												
64/ 63			.9	3.9	1.6	1.2												65	65	4											
62/ 61		.2	2.2	2.6	2.6	1.1												72	72	9											
60/ 59		.2	1.9	2.6	1.8	.7												61	61	27											
58/ 57		1.1	1.4	5.4	1.4	1.4												91	91	61	18										
56/ 55		1.2	1.8	6.1	2.8	.7												107	107	61	35										
54/ 53		1.3	5.4	4.7	6.2	.1												151	151	70	46										
52/ 51		2.3	5.3	2.7	2.3	.2												110	110	102	68										
50/ 49		.6	1.5	3.7	.8	.2												59	59	145	35										
48/ 47	.1	1.9	2.7	1.8	1.3													66	66	121	98										
46/ 45		1.2	2.2	.8	.4													37	37	134	124										
44/ 43		.6		.4	.1													9	9	73	108										
42/ 41			.1	.2														3	3	32	85										
40/ 39			.1															1	1	10	86										
38/ 37																				7	76										
36/ 35																				1	44										
34/ 33																					19										
32/ 31																					11										
30/ 29																					9										
28/ 27																					3										
26/ 25																					2										
TOTAL	.115	.525	.735	.222	.3	6.2	.7											857	857	857	957										

Element (X)	$\Sigma x^2$	$\Sigma x$	$\bar{x}$	$\sigma_x$	No. Obs.	Mean No. of Hours with Temperature						
						$\leq 0^\circ \text{F}$	$\leq 32^\circ \text{F}$	$\leq 67^\circ \text{F}$	$\leq 73^\circ \text{F}$	$\leq 80^\circ \text{F}$	$\leq 93^\circ \text{F}$	Total
Rel. Hum.	4199839	58446	68.2	11.536	857							
Dry Bulb	2608728	47052	54.9	5.473	857			1.3	.5			93
Wet Bulb	2129633	42563	49.6	5.734	857							93
Dew Point	1714972	37944	44.3	6.393	857		2.7					93

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AT4 WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

075521 ALCONBURY RAF UK  
STATION STATION NAME

73-87  
YEARS

OCT  
MONTH

PAGE 1 1500-1700  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL	TOTAL					
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point		
75/ 75																																		3	3			
72/ 71																																		2	2			
70/ 69																																		3	3			
66/ 65						1.7		.7																										14	14			
64/ 63					1.7	3.9		1.7		.7																								55	55	4		
62/ 61				.4	.8	2.5		1.7		.6																								51	51	3		
60/ 59				.4	2.3	1.6		1.9		.6																								59	59	31		
58/ 57				1.1	2.7	4.4		1.2		1.6																								92	92	45	15	
56/ 55				1.1	3.6	5.8		2.1		.5																								110	110	57	34	
54/ 53				.8	4.2	3.8		4.1		.6																								113	113	67	38	
52/ 51		.4		2.1	5.6	4.4		2.7		.1																								123	123	100	72	
50/ 49				1.2	1.9	3.5		.7		.1																								62	62	129	54	
48/ 47				1.6	3.2	2.5		1.4																										76	76	128	81	
46/ 45		.7		1.6	3.6	1.7		.5																										58	58	118	139	
44/ 43		.1		.7	.4	.4		.7																										11	11	85	86	
42/ 41						.4																												3	3	46	92	
40/ 39					.7																													2	2	16	98	
38/ 37					.1																													1	1	4	52	
36/ 35																																					4	53
34/ 33																																					1	27
32/ 31																																						10
30/ 29																																						10
28/ 27																																						6
26/ 25																																						1
24/ 23																																						2
TOTAL	.71	.72	.63	.41	.7	5.4	.5																											838	938		838	

Element (X)	Σx'	Σx	Σ	σ <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	4137837	58798	69.3	11.460	838	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Dry Bulb	2484542	45392	54.2	5.551	838			.9	.3			93
Wet Bulb	2043616	41158	49.1	5.145	838							93
Dew Point	1659159	36887	44.3	6.510	838		3.2					93

USAFETAC FORM 0-26-5 (O.L.A.)  
REVISED BY HEADS OFFICES OF THE P.M.A. AND C.O.C. 11/72

Element (X)	$\Sigma H$	$\Sigma W$	$\Sigma P$	$\Sigma S$	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	4137833	58798	69.3	11.460	838	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Dry Bulb	2484542	45392	54.2	5.551	838			.9	.3			93
Wet Bulb	2043616	41158	49.1	5.145	838							93
Dew Point	1659159	36887	44.7	6.510	838		3.2					93

## PSYCHROMETRIC SUMMARY

73-62

YEARS

OC I  
MONTH

PAGE 1 1430-2030  
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL	TOTAL				
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
56/ 45						.1																												1	1		
54/ 53					.3	1.6		.1																									15	15			
50/ 61				1.8	1.2																												22	22	1		
51/ 59			.7	2.9	.5		.1																										31	31	4		
56/ 57		1.5	2.7	1.8		.4																											47	47	32	4	
56/ 55		2.6	3.3	3.5		.1																											71	71	39	29	
54/ 53		.7	6.1	3.5		.3																											77	77	43	34	
52/ 51	.7	2.2	7.4	2.6		.3																											96	96	54	48	
50/ 49	.1	1.9	4.4	2.6																													66	66	112	22	
49/ 47	.1	3.1	7.8	3.3		.4																											108	108	103	54	
46/ 45	.3	3.8	8.5	2.7		.7																											114	114	106	126	
44/ 43	.3	2.2	4.4	.7																													55	55	92	77	
42/ 41	.1	.5	1.8	.1																													19	19	76	98	
41/ 39		.4	.1	.1																													5	5	47	82	
39/ 37			.5																														4	4	15	61	
36/ 35		.1	.1																														2	2	2	52	
34/ 33																																				6	27
32/ 31																																				1	5
30/ 29																																					8
28/ 27																																					7
26/ 25																																					1
TOTAL	1.6	19.8	51	1.8	24.6	2.2																											733	733	733		

Element (X)	Σx <sup>1</sup>	Σx	X	σ <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	4319115	55875	76.2	9.45	733	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	1904215	37153	50.7	5.365	733							93
Wet Bulb	1646415	34527	47.1	5.236	733			.1				93
Dew Point	1404995	31767	43.3	6.214	733		2.7					93

## PSYCHROMETRIC SUMMARY

OCT

YEARS

2100-2300

HOURS 11.5.1.

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B./W.B.	TOTAL			
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		31	Dry Bulb	Wet Bulb	Dew Point
64/ 63																																		3	3	
62/ 61					1.4																												10	17		
60/ 59					3.1																												23	23		
58/ 57				1.8	2.4																												28	28	17	
56/ 55				2.9	3.5																												47	47	29	
54/ 53				1.2	5.6	2.6																											62	62	38	
52/ 51				1.5	7.8																												65	65	46	
50/ 49				1.4	3.6																												38	38	68	
48/ 47				6.7	7.3	1.2																											105	105	85	
46/ 45				5.8	9.5	1.7																											113	113	92	
44/ 43				5.3	5.8																												79	79	88	
42/ 41				3.4	3.4																												46	46	87	
40/ 39				2.4	1.2																												24	24	52	
38/ 37				1.1	.3																												9	9	32	
36/ 35																																		3	3	16
34/ 33																																				2
32/ 31																																				3
30/ 29																																				
28/ 27																																				
26/ 25																																				
TOTAL	1.733	355.6	9.3	.7																													655	655	655	

Element (X)	Z <sub>g</sub> <sup>1</sup>	Z <sub>g</sub>	X	g <sub>s</sub>	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	4202756	2222	79.7	8.750	655	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	
Dry Bulb	1571857	31582	48.7	5.533	655							93
Wet Bulb	1392538	29993	45.8	5.408	655							93
Dew Point	1214873	27915	42.6	6.205	655		4.3					93



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AFC WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

STATION 73-82 ALCONBURY RAF, UK

73-82

YEARS

OCT  
MONTH

PAGE 1

ALL  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																																	TOTAL D.B./W.B.	TOTAL		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Dry Bulb	Wet Bulb	Dew Point		
74/ 75																																	6	5			
74/ 73																																	2	2			
72/ 71																																	5	5			
72/ 69																																	8	8			
69/ 67																																	3	3			
66/ 65																																	30	30			
64/ 63																																	169	169	12	2	
62/ 61																																	208	208	16		
60/ 59																																	251	251	84		
58/ 57																																	384	384	240	66	
56/ 55																																	564	564	301	212	
54/ 53																																	686	686	354	257	
52/ 51																																	714	714	534	366	
50/ 49																																	880	880	810	271	
48/ 47																																	709	709	773	538	
46/ 45																																	790	790	849	896	
44/ 43																																	442	442	715	627	
42/ 41																																	299	299	589	734	
40/ 39																																	153	153	334	711	
38/ 37																																	83	83	214	522	
36/ 35																																	59	59	94	372	
34/ 33																																	28	28	85	219	
32/ 31																																	2	2	28	84	
30/ 29																																	1	1	5	139	
28/ 27																																	2	2	2	49	
26/ 25																																				20	
24/ 23																																				5	
TOTAL	2.7	30.7	39.5	16.5	6.7	1.7																											6378	6078	6078		

Element (X)	$\Sigma x^2$	$\Sigma x$	$\bar{x}$	$s^2$	No. Obs.	Mean No. of Hours with Temperature					Total	
Rel. Hum.	36857672	468358	77.1	1.234	6078	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	
Dry Bulb	1579441	36517	57.4	6.435	6078			6	2.9	1.0		744
Wet Bulb	13586252	285212	46.9	5.774	6078		4.3					744
Dew Point	11626077	262907	43.3	6.464	6078		32.8					744

USAFETAC FORM 0-26-3 (OL A)

USAFETAC

## PSYCHROMETRIC SUMMARY

NOV

STATION

STATION NAME

YEARS

**MONTH**

PAGE 1

2000-0700

HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																														TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	= 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point													
67/ 61			.4	.2														3	3															
67/ 59			.4															2	2															
67/ 57			.4															2	2	3														
66/ 55			.2															1	1	2														
64/ 53		.6	.8	1.3														13	13	4	4													
62/ 51		1.2	3.1	.4	.2													23	23	2	5													
62/ 49		1.7	3.8	.4														28	28	15	4													
62/ 47		4.2	5.2															44	44	36	6													
62/ 45	.2	5.6	6.6	.4														63	63	47	29													
64/ 43	1.	4.2	4.7	.8														48	48	54	46													
63/ 41	.2	4.2	7.9	.6														62	62	54	35													
62/ 39		4.2	5.7															44	44	39	53													
76/ 37	.2	3.6	2.1															28	28	59	49													
66/ 35	.8	6.9	7.3															48	48	55	47													
76/ 33	.4	7.9	2.7															29	29	38	54													
72/ 31		3.1	.4															17	17	27	39													
76/ 29		7.1	.4															17	12	23	40													
26/ 27	.2	.2	.4															4	4	9	26													
76/ 25		1.2	.4															7	7	4	15													
74/ 23																				7	11													
77/ 21																					5													
70/ 19																					3													
15/ 17																					3													
16/ 15																					4													
TOTAL	3.145	646.8	4.2	.2														478	478	478	478													

Element (X)	Σx'	Σx	X̄	s <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature					Total	
Rel. Hum.	3722.9	18119	79.7	8.235	478	≤ 6 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	658542	23704	41.9	6.696	478		7.5					5
Wet Bulb	758575	18799	39.3	6.351	478		17.2					2
Dew Point	641028	17184	35.9	6.984	478		21.5					2

## PSYCHROMETRIC SUMMARY

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YEARS

NOI

PAGE \* 0300-0540  
HOURS (G. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point															
50/ 59																		1	1																	
52/ 57		1.1	1.1															15	15																	
56/ 55		.7	.6	1.1														17	17	8	4															
54/ 53	.2	1.1	2.1	.1														25	25	18	6															
52/ 51	.1	1.4	5.7															47	47	21	15															
51/ 42		1.1	2.1	.1														24	24	29	9															
49/ 47		4.4	3.7	.6														65	65	52	22															
46/ 45	.1	3.7	6.6	.4														79	79	67	54															
44/ 43	.5	4.4	3.7	.6														67	67	55	63															
42/ 41		5.8	7.4	.7														101	101	67	56															
40/ 39		5.1	4.8	.1														73	73	76	64															
38/ 37	.6	5.5	2.9															65	65	88	62															
36/ 35	.3	3.9	1.9															44	44	66	68															
34/ 33	.3	1.8	2.1															30	30	51	74															
32/ 31	.1	2.6	.4															24	24	38	45															
30/ 29	.1	2.5	.1															20	20	28	71															
28/ 27	.3	1.7	.9															20	20	21	38															
26/ 25		.7																5	5	12	34															
24/ 23		.3																2	2	5	18															
22/ 21		.3																2	2	2	9															
20/ 19																				2	3															
18/ 17																					6															
16/ 15																					3															
14/ 13																					2															
TOTAL	2.548	6.444	8	3.9														726		726	726															

Element (X)	Σ x'	Σ x	Σ	Σ <sup>2</sup>	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Num.	468928	58556	87.7	8.006	726	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	
Dry Bulb	1329284	30616	42.2	7.257	726		9.7					911
Wet Bulb	1177947	28820	39.7	6.994	726		13.4					923
Dew Point	1002478	26392	36.4	7.707	726		28.8					928

## PSYCHROMETRIC SUMMARY

NO V

STATION

STATION NAME

YEARS

**MONTH**

PAGE 1 0600-0800

NOV 11 1964

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																														TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	= 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point													
57 / 57		1.3	1.4	.1														22	22															
56 / 55		1.2	1.4	.3														22	22	10	1													
54 / 53	.3	.5	1.7	.9														26	26	23	13													
52 / 51		1.7	3.4	.1														40	40	25	17													
51 / 49		.5	3.3	.1														23	23	30	10													
49 / 47		4.2	2.6	.3														54	54	45	27													
46 / 45	.1	6.6	4.5	1.2														96	96	63	55													
44 / 42	.3	3.5	5.6	1.7														80	80	59	60													
43 / 41		4.7	4.6	.3														76	76	70	65													
41 / 39		8.6	4.0															97	97	81	44													
37 / 37	.5	5.2	4.5															78	78	171	61													
36 / 35	.9	4.0	2.2															54	54	80	98													
34 / 33	.1	1.8	1.3															25	25	78	72													
32 / 31		2.5																19	19	32	49													
30 / 29		3.3	.1															24	24	28	81													
28 / 27		2.2	.4															20	20	18	47													
26 / 25		.5	.3															6	6	14	28													
24 / 23		.5																4	4	6	16													
22 / 21		.5																4	4	3	7													
20 / 19																				4	7													
18 / 17																					2													
16 / 15																					7													
14 / 13																					2													
12 / 11																					1													
TOTAL	1.952	940.9	4.3															770	770	770														

Element (X)	Z <sub>x'</sub>	Z <sub>x</sub>	X	" <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	5008404	61812	87.3	7.770	770	+ 0 F	+ 32 F	+ 67 F	+ 73 F	+ 80 F	+ 93 F	Total
Dry Bulb	1400798	32346	42.1	7.392	770		9.7					90
Wet Bulb	1243297	30455	39.6	7.198	770		12.3					90
Dew Point	1062003	27953	36.3	7.837	770		28.9					90

15621 ALCONBURY RAF UK

15621 ALCONBURY RAF UK  
STATION STATION NAME

23-62

YEARS

NOV  
MONTH

PAGE 2 6900-1150  
HOURS (L. S. T.)

USAFETAC  
FORM  
AF 44  
0-26-5 (OL A)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

2

NOV

MÔN T H

1

0-26.5 (OL A)

**USAFETAC**

## PSYCHROMETRIC SUMMARY

73-82

YEARS

NO.  
MONTH

PAGE 1 ~~1500-1700~~  
HOURS (1500-1700)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	Dry Bulb	Wet Bulb	Dew Point															
64/ 63			.1		.1	.1												3	3																
62/ 61				.8	.2	.2		.1										16	16	1															
59/ 59			.2	.5	.4	.4												12	12		1														
56/ 57		1.0	1.9	1.6	.1													38	38	10															
54/ 55		1.5	1.9	2.7	.1													51	51	15	3														
54/ 53		.7	4.2	1.5	.4													56	56	41	21														
52/ 51		1.6	4.7	1.8	.7													67	67	47	29														
51/ 49		.4	3.4	1.8	.1													47	47	75	16														
49/ 47		1.5	5.9	3.6	.5													95	95	53	47														
46/ 45	.1	3.3	1.3	3.9	1.1													154	154	89	86														
44/ 43		1.0	6.1	2.9	.2													64	64	94	41														
42/ 41		2.2	6.2	1.9														85	85	105	81														
41/ 39		2.8	2.1	1.5														52	52	107	81														
38/ 37	.4	.6	2.1	.2														27	27	83	101														
36/ 35		.1	.8	.2														10	10	36	101														
34/ 33	.2	.4	.5	.2														11	11	34	65														
32/ 31		.1	.4	.0														6	6	13	27														
29/ 29	.1	1.0	.1	.1														11	11	15	39														
26/ 27																				6	47														
26/ 25																				1	20														
24/ 23																					10														
22/ 21																					3														
21/ 19																					1														
18/ 17																					3														
16/ 15																					2														
TOTAL		8.18	35.1	325.2	4.5		.1											875	825		825														

Element (X)	$\Sigma x^1$	$\Sigma x$	$\bar{x}$	$\sigma_x$	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	4526834	62546	73.410	262	825	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total
Dry Bulb	1850033	38697	46.9	6.511	825		1.9					90
Wet Bulb	1568096	35592	43.1	6.289	825		3.8					90
Dew Point	1277350	31880	38.6	7.425	825		16.6					90

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

035621 ALCONBURY RAF UK

73-82

NOV

STATION

STATION NAME

YEARS

MONTH

PAGE 1

1800-2000

HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																																	TOTAL D.B./W.B.	TOTAL		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Dry Bulb	Wet Bulb	Dew Point		
64/ 63						.1																											1	1			
62/ 61					.5	.7																											6	6			
60/ 59																																	1	1			
58/ 57			.7	1.0	1.3																												18	19	5		
56/ 55			1.5	2.1	.7																												31	31	4	1	
54/ 53			.1	3.0	1.0																												35	35	18	9	
52/ 51			.4	4.2	.3																												35	35	27	12	
50/ 49			1.8	2.4	.4																												33	33	46	9	
48/ 47	.1	1.6	5.3	1.7	.3																												61	61	46	32	
46/ 45		3.1	11.0	3.1	.1																												116	116	54	66	
44/ 43		2.0	8.6	2.2																														91	91	64	32
42/ 41	.3	3.9	5.8	.7																														76	76	100	60
40/ 39	.4	4.6	4.5	.6																														72	72	100	67
38/ 37	.8	2.8	4.5																															58	58	79	81
36/ 35		1.1	3.7	.4																														37	37	55	96
34/ 33	.3	1.1	1.1																															18	18	52	62
32/ 31																																		5	5	18	35
30/ 29		.6			.1																													7	7	9	57
28/ 27		.7	.4																															8	8	5	47
26/ 25		.1	.3																															3	3	4	17
24/ 23																																				6	14
22/ 21																																					8
20/ 19																																					1
18/ 15																																					6
TOTAL	7.72	11.58	112.2	.6																														712	712	712	

Element (X)	$\Sigma X$	$\Sigma X^2$	$\Sigma X^3$	$\Sigma X^4$	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	41813.6	5421.3	76.1	8.706	712	$\geq 0 F$	$\geq 32 F$	$\geq 67 F$	$\geq 73 F$	$\geq 80 F$	$\geq 93 F$	90
Dry Bulb	14191.6	31426	44.1	6.713	712		2.9					90
Wet Bulb	122454.7	29178	41.0	6.366	712		7.8					90
Dew Point	1010471	26323	37.0	7.243	712		23.4					90

USAFETAC FORM 0-26-5 (OL A) REVISIONS PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



## PSYCHROMETRIC SUMMARY

75521 ALCONBURY RAF UK

73-82

YEAR 1

NO 1

NAME \_\_\_\_\_

PAGE 1 2100-2300  
HOURS 10.00.11

**VOLUME 1**

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point															
61/ 61					.7													5	5																	
62/ 59				.1														1	1																	
63/ 57					.6													4	4																	
64/ 55		1.0	2.5	.4														27	27	6																
64/ 53		.3	1.8	.7														19	19	7	1															
65/ 51		.1	5.1	.7														41	41	29	14															
67/ 49		.6	2.9	.1														25	25	23	4															
48/ 47		3.4	4.5	.6														58	58	52	25															
47/ 45		3.6	6.7	1.6														82	82	49	53															
44/ 42	.4	3.6	7.2	2.6														94	94	66	39															
47/ 41	.7	2.8	7.0	.6														76	76	74	63															
47/ 39	.3	5.5	2.8	.4														62	62	75	64															
78/ 37	.7	4.2	6.3	.1														78	78	95	65															
36/ 35		3.5	2.8	.1														44	44	50	63															
34/ 33	.7	2.5	2.3															32	32	76	80															
72/ 31		1.2	.6															12	12	37	38															
71/ 29		1.3	.1															10	10	26	77															
28/ 27		.9																6	6	4	44															
26/ 25		.4	.6															7	7	22	7															
24/ 23		.1																1	1	7	13															
22/ 21		.1																1	1	1	10															
22/ 17																					3															
18/ 17																					1															
16/ 15																					6															
TOTAL	2.5	34.9	53.1	9.5														685		685	685															

Element (X)	Σ X <sup>2</sup>	Σ X	Σ	Σ <sub>2</sub>	No. Obs.	Mean No. of Hours with Temperature						Total
						≤ 6 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Rel. Hum.	4190236	53204	77.8	8.825	685							
Dry Bulb	1279772	29234	42.7	6.855	685		4.9					90
Wet Bulb	1114433	27271	39.8	6.481	685		10.9					91
Dew Point	927370	24726	36.1	7.138	685		28.1					92

## PSYCHROMETRIC SUMMARY

**YEAR**

NOV  
MONTH

PAGE 2

ALL

ALL  
HOURS (L. S. T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	= 31	Dry Bulb	Wet Bulb	Dew Point															
64/ 63					.1													9	9																
62/ 61				.3	.3	.2												55	55																
60/ 59			.1	.3	.2	.1												40	40	1	1														
58/ 57			.7	1.2	.5	.3												156	156	30															
56/ 55		1.0	1.2	1.3	.1													248	248	80	15														
54/ 53	.1	.8	2.7	1.4	.2													297	297	176	78														
52/ 51	.1	1.2	3.8	.8														356	356	248	153														
50/ 49		.8	2.8	.5	.1													264	264	352	96														
48/ 47		1.2	4.9	1.5	.3													574	574	376	252														
46/ 45	.1	4.2	3.1	2.5	.4													894	894	554	487														
44/ 43	.3	2.5	5.9	1.9														617	617	570	377														
42/ 41	.1	3.9	6.1	1.7														643	643	675	523														
40/ 39	.1	4.7	3.3	.5														504	504	708	531														
38/ 37	.5	3.0	3.3	.1														398	398	661	599														
36/ 35	.2	2.4	1.7															278	278	440	668														
34/ 33	.2	1.3	1.3	.1														167	167	395	558														
32/ 31	.1	1.3	.7															97	97	214	301														
30/ 29	.0	1.5	.2	.7														104	104	158	450														
28/ 27	.1	.6																66	66	78	331														
26/ 25		.4	.2															32	32	50	162														
24/ 23		.7																8	8	35	98														
22/ 21		.1																8	8	7	48														
20/ 19																					23														
18/ 17																					27														
16/ 15																					31														
14/ 13																					4														
12/ 11																					1														
TOTAL	1.9	34.1	43.6	13.6	1.9	.7	.4											5815			5815														

Element (X)	$\Sigma x^2$	$\Sigma x$	$\bar{x}$	$\sigma_n$	No. Obs.	Mean No. of Hours with Temperature						
Ref. Num.						= 6 F	= 32 F	= 67 F	= 73 F	= 80 F	= 93 F	Total
Dry Bulb	34658841	946863	76.8	9.448	5815							720
Wet Bulb	1166281	257287	44.2	7.172	5815		39.3					720
Dew Point	8406816	216778	37.3	7.483	5815		182.9					720

2

7

DEC

STATION

STATION NAME

**YEARS**

**MONTH**

~~3000-3200~~  
~~10000 (1-5-1)~~

USAFETAC FORM 0-26-5 (OL A) REPEATED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

24

1000

**YEARS**

DEC

PAGE 1 0300-0500  
NOV 11 1971

**USAFETAC**

## PSYCHROMETRIC SUMMARY

73-82

DEC

PAGE 1

~~36CG-0850~~  
~~MOORE (C. E.)~~

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
58/ 57				.5														4	4																
56/ 55				.5														4	4																
54/ 53		.1	2.5	.1														23	23	1															
52/ 51		1.5	1.3	.2														25	25	8	1														
5 / 49		1.7	1.7															28	28	41	4														
45/ 47	.5	2.4	2.3		.1													44	44	47	23														
46/ 45	.3	4.5	5.3	.6	.2													95	95	44	51														
44/ 43	.4	2.7	4.7	.2														66	66	64	44														
42/ 41		4.2	3.2	.4														64	64	66	46														
41/ 39	.5	7.9	3.3															96	96	65	68														
36/ 37	.5	4.7	3.5															72	72	97	81														
36/ 35		7.3	3.2															89	89	76	70														
34/ 33	1.2	7.2	.6															80	80	130	68														
32/ 31		2.5																21	21	72	49														
7 / 29	.1	4.7	.5															45	45	29	109														
28/ 27	.5	2.7	.2															28	28	32	99														
26/ 25		2.8																23	23	26	25														
24/ 23	.1	.6																6	6	17	24														
22/ 21	.5	.6																9	9	9	27														
22/ 19		.2																2	2	5	11														
18/ 17																				2	10														
16/ 15																					11														
14/ 13																					1														
12/ 11																					2														
TOTAL	5.15	9.33	1	2.5	.4													824		824	824														

Element (X)	Σx <sup>1</sup>	Σx	Σ	Σ <sub>n</sub>	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	54837.9	66847	81.1	8.591	824							
Dry Bulb	1313962	32334	39.2	7.408	824		15.1					93
Wet Bulb	1170878	30520	37.0	6.959	824		21.7					93
Dew Point	989590	27870	33.8	7.553	824		41.5					92

## PSYCHROMETRIC SUMMARY

75621 ALCONBURY RAF JK  
STATION STATION

73-82

DEC

PAGE 1

0920-1166  
HOURS (C. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point															
61/ 59					.1													2	7																
59/ 57					.4													3	3																
56/ 55			.1	.2	.4													6	6																
54/ 53			.2	3.2	.2	.1												32	32	3															
52/ 51			.7	5.2	.2													27	27	14	1														
51/ 49	.1	1.1	1.8		.1													26	26	37	6														
48/ 47	.5	2.7	4.1		.6													66	66	45	24														
46/ 45	.2	1.1	5.7		.8	.4												113	113	74	70														
44/ 43	.1	2.8	6.7	1.1														85	85	66	47														
42/ 41	.1	3.4	3.6	.4														64	64	75	58														
41/ 39	.5	6.5	4.5	.5														94	94	82	72														
38/ 37	1.1	4.4	4.6	.1														95	95	94	81														
36/ 35		6.7	4.1															92	92	94	81														
34/ 33	.4	5.1	1.1															55	55	127	76														
32/ 31	.2	2.2	.4															24	24		68														
31/ 29		2.0	.7															23	24	19	94														
28/ 27	.1	2.3																75	25	77	85														
26/ 25		1.8																15	15	18	22														
24/ 23		.6																5	5	14	26														
22/ 21	.2	.2																4	4	6	13														
20/ 19																				2	15														
18/ 17																					9														
16/ 15																					5														
TOTAL	3.9	49.6	41.4	4.7	.5															856	856	856													

Element (X)	2x'	2x	X	X'	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	561925	68573	87.1	8.960	856	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	1451929	34749	40.5	7.742	857		17.5					93
Wet Bulb	1282596	32650	38.1	6.600	856		15.8					93
Dew Point	1080132	29766	34.8	7.260	856		36.9					93

175521 ALCONBURY RAF UK  
STATION STATION

\_\_\_\_\_  
YEARS

\_\_\_\_\_  
DEC  
MONTH

PAGE : ~~1200-1400~~  
HOURS (6:00)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	Dry Bulb	Wet Bulb	Dew Point															
67/ 61																		2	2																
67/ 59																		1	3																
58/ 57			.3	.4														6	6																
52/ 55			.6	1.1	1.2	.2												26	26	2															
54/ 53			.1	2.1	1.4	.1												34	34	13															
52/ 51	.1	1.2	3.3	1.2	.4													75	75	16															
57/ 49		1.7	2.7	.9														35	35	54															
48/ 47	.1	3.3	3.1	1.1														68	68	72															
47/ 45	.3	5.4	5.5	2.9	.6													136	136	72															
44/ 43	.1	3.1	6.2	2.6														107	107	92															
42/ 41		5.1	5.1	1.1														92	92	74															
41/ 39	.6	5.5	4.6	.4	.1													102	102	123															
36/ 37	.9	7.2	3.7															71	72	118															
38/ 35	.1	3.7	3.1															63	63	87															
34/ 33	.4	3.2	1.4															44	44	93															
32/ 31	.1	.7	.2															9	9	42															
37/ 29		1.6	.3															17	17	15															
28/ 27		1.8	.1															17	17	20															
28/ 25		.2																2	2	12															
24/ 23																				2															
22/ 21																																			
21/ 17																																			
17/ 17																																			
TOTAL	2.5	38.5	44.1	12.6	2.1													907	908	907															

Element (X)	$\Sigma x'$	$\Sigma x$	$\bar{x}$	$\sigma_x$	No. Obs.	Mean No. of Hours with Temperature						
						± 0 F	± 32 F	± 67 F	± 73 F	± 80 F	± 93 F	Total
Rel. Hum.	5475.31	69853	77.0	16.255	907							
Dry Bulb	17191.3	38285	42.9	6.664	907		4.6					93
Wet Bulb	14825.1	36237	40.0	6.194	907		9.3					92
Dew Point	12209.6	32676	36.0	6.945	907		30.8					91

## PSYCHROMETRIC SUMMARY

25621  
STATION

ALCONBURY RAF UN

73-82

DEC

PAGE 1 1500-1700  
HOURS [11:30-1:00]

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point														
57/59					.1													1	1																
58/57			.1	.3	.1													5	5																
59/55			.4	.1	1.1													14	14	1															
59/53			.2	2.6	1.1	.1												37	37	9	1														
59/51	.2		.7	3.4	.7													45	45	11	10														
59/49			.7	2.6	.0													38	38	49	3														
48/47			4.5	3.5	2.3	.1												95	95	55	11														
46/45		.7	4.1	5.6	1.5	.2												110	110	90	94														
44/43			4.1	5.6	2.1	.2												109	109	74	52														
42/41			3.9	2.9	.9													69	69	95	69														
40/39		.2	6.8	4.1	.7													107	107	94	84														
38/37		.0	4.5	5.0														94	94	110	1.1														
36/35		.2	4.3	2.7	.1													60	60	94	88														
34/33		.4	3.9	2.3	.1													61	61	105	78														
32/31			1.3	.4	.1													17	17	49	66														
30/29			2.2	.4														24	24	30	91														
28/27			2.1															19	19	29	61														
26/25			.4															4	4	14	33														
24/23																				4	23														
22/21																					13														
20/19																					8														
18/17																					3														
TOTAL		5.6	44.1	40.9	11.6	.5													909	909	909														

Element (X)	Z <sub>x</sub> <sup>1</sup>	Z <sub>x</sub>	X	° <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.	5670446	71272	78.4	9.516	919	≤ 6 F	≥ 32 F	≥ 67 F	≥ 72 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	1645524	38192	42.3	6.714	209		6.5					93
Wet Bulb	1436234	35684	39.3	6.249	209		12.5					93
Dew Point	1196137	32371	35.6	6.910	909		32.5					93



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AID WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

075621 ALCONBURY RAF UK  
STATION

73-82

YEARS

DEC  
MONTH

PAGE 1

1400-2000  
HOURS (L. S. T.)

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL	TOTAL			
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
57					.4		.3		.1																								6	6		
56					.4		.4																										6	6		
54					1.6		.7																										19	19	3	
52				.7	2.2		.2																										26	26	7	3
50				2.2	2.7		.4																										31	31	71	5
48				2.6	2.2		1.3																										53	53	41	11
46		.9		2.2	6.6		.9																										110	110	68	66
44		.1		3.4	4.9		1.3																										74	74	65	46
42				3.7	4.1		.8																										60	60	73	55
40				2.4	2.6		.2																										86	86	59	54
38		.9		5.9	4.3																												95	95	106	71
36		.3		4.9	2.9																												61	61	72	62
34		.6		4.3	1.6																												51	51	98	79
32				1.7	.8																												19	19	46	43
30		.1		2.4	.8		.3																										27	27	29	86
28		.7		4.2																													37	37	33	71
26				1.1																													8	8	21	29
24				.1																													1	1	7	25
22																																				1
20																																				
18																																				
16																																				
TOTAL	3.7	51.2	36.2	6.6	.1																												760	760	760	760

Element (X)	Z <sub>g</sub>	Z <sub>h</sub>	Z	%	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	4914302	60713	79.9	9.198	76	+ 0 F	+ 32 F	+ 47 F	+ 73 F	+ 80 F	+ 93 F	
Dry Bulb	1291149	30877	42.6	6.953	76		11.3					93
Wet Bulb	1139330	29210	38.2	6.492	76		16.8					53
Dew Point	956519	26415	38.8	7.115	76		35.8					63

USAFETAC FORM 0-26-5 (OL.A) REVISIONS PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

2

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73-82

YEARS

DEC

PAGE 1

2100-2300  
HOURS (11. 3. 7.)

USAFETAC FORM 0-26-5 (Q.L.A.) REVISÉD PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

2

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PAGE 1

**MONTH**

USAFETAC 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE  
FORM JUL 64

USAFETAC



## PSYCHROMETRIC SUMMARY

275521	ALCONBURY RAF UK
STATION	STATION NAME

73-83

**YEARS**

ALL  
MONTANA

PAGE 2

HOURS (L, S, T)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																															TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥ 31	Dry Bulb	Wet Bulb	Dew Point															
26/ 25	.1	.3	.0															241	241	495	1446														
24/ 23	.2	.1	.2															57	57	230	968														
22/ 21	.3	.0																58	58	70	554														
20/ 19	.1	.0																24	24	47	339														
18/ 17	.3	.0																16	16	24	177														
16/ 15	.3	.0																6	6	8	113														
14/ 13	.3																	4	4	5	30														
12/ 11	.2																	2	2	2	23														
10/ 9	.3	.3																3	3	3	12														
8/ 7	.1	.0																3	3	1	2														
6/ 5	.3	.0																9	9	7	3														
4/ 3																				4	1														
2/ 1	.3																	1	1	1	3														
0/ -1																					6														
-2/ -3																					1														
TOTAL	2.7	31.0	33.7	15.3	7.8	4.9	2.5	1.1	.4	.2	.1	.1	.0	.0	.0	.0		735.86			735.76														
																		735.76			735.76														

Element (X)	Σ X'	Σ X	X̄	s <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature						Total
						≤ 6 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	
Rel. Hum.	418651685	5458815	74.2	13.6	19							
Dry Bulb	191706353	3668297	49.9	10.9	61		362.8	525.7	197.3	88.8	.6	876.0
Wet Bulb	154992709	3364843	45.7	9.1	12		626.8	28.1				876.0
Dew Point	1324773.9	3047961	41.9	9.1	89	1.1	1587.9	.1				876.0

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## MEANS AND STANDARD DEVIATIONS

DRY-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

075621 ALCONBURY RAF UK

73-83

STATION

STATION NAME

YEARS

HRS PER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
MEAN	40.7	38.7	39.5	42.2	46.7	53.1	56.5	57.4	53.3	47.8	41.8	40.1	47.3
S D	7.234	5.639	4.934	5.573	4.577	5.504	4.692	4.916	5.100	5.796	6.696	7.108	8.802
TOTAL OBS	418	399	448	480	500	563	575	597	549	554	478	477	6038
MEAN	38.6	37.0	38.8	40.9	45.4	51.5	54.6	55.1	52.1	47.1	42.2	39.5	45.5
S D	7.440	5.946	5.096	5.400	4.641	4.739	4.211	4.730	5.103	6.031	7.257	7.393	8.603
TOTAL OBS	742	682	783	746	757	785	797	810	780	796	726	732	9136
MEAN	38.4	36.7	39.2	42.6	48.8	55.3	57.8	57.4	53.1	47.0	42.0	39.2	46.6
S D	7.634	6.267	5.226	5.193	4.918	5.033	4.485	4.639	5.260	6.198	7.392	7.408	9.573
TOTAL OBS	820	760	849	818	823	828	852	867	818	811	770	824	9840
MEAN	39.6	38.8	43.3	47.7	54.6	60.9	63.5	64.1	59.4	51.6	44.7	40.5	50.9
S D	7.409	6.054	5.038	5.362	6.030	6.471	5.666	5.238	5.242	5.595	6.893	7.042	1.003
TOTAL OBS	859	794	890	869	874	867	893	908	857	834	790	857	10292
MEAN	41.8	41.7	46.5	51.0	57.5	64.0	66.8	68.0	63.3	54.9	47.9	42.9	54.0
S D	6.957	6.176	5.440	6.279	6.778	7.615	6.608	6.381	5.765	5.473	6.278	6.664	11.501
TOTAL OBS	912	838	930	887	899	885	916	930	874	857	829	908	10665
MEAN	41.3	41.9	46.5	51.1	57.6	64.3	67.5	68.5	63.3	54.2	46.9	42.0	53.8
S D	6.809	6.177	5.490	6.605	6.953	7.914	6.986	6.871	6.016	5.551	6.511	6.714	11.916
TOTAL OBS	915	83	922	853	863	862	892	905	853	838	825	979	10474
MEAN	39.9	39.7	43.1	47.3	53.9	61.1	64.6	64.8	58.9	50.7	44.1	40.6	50.9
S D	6.890	5.849	5.158	6.086	6.330	7.383	6.403	6.333	5.679	5.365	6.713	6.953	11.283
TOTAL OBS	769	705	791	730	735	771	776	793	738	733	712	760	9009
MEAN	39.3	38.4	41.0	44.0	49.4	56.5	59.6	59.9	55.3	48.7	42.7	39.9	47.7
S D	7.072	5.783	4.965	5.535	5.111	6.031	5.055	5.040	5.296	5.530	6.855	7.283	9.829
TOTAL OBS	747	688	734	606	616	666	675	689	637	655	685	738	8132
MEAN	40.0	39.2	42.6	46.3	52.3	58.8	61.8	62.3	57.7	50.4	44.2	40.7	49.9
S D	7.271	6.307	5.981	6.927	7.364	7.973	7.303	7.447	6.969	6.435	7.172	7.162	10.961
TOTAL OBS	6182	5699	6387	5989	6067	6227	6376	6499	6102	6078	5815	6205	73586
ALL HOURS													

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## MEANS AND STANDARD DEVIATIONS

WET-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

035621 ALCONBURY RAF UK

73-83

STATION		STATION NAME												YEARS													
HRS LST		JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC		ANNUAL	
C-02	MEAN	38.1		36.6		37.4		39.4		43.9		49.6		53.1		54.0		50.3		45.3		39.3		37.8		44.4	
	S D	6.597		5.468		4.953		5.368		4.387		5.176		4.281		4.413		4.881		5.551		6.351		6.554		8.260	
	TOTAL OBS	418		399		448		480		500		563		575		597		549		554		478		477		6038	
3-05	MEAN	36.3		35.2		36.9		38.6		43.1		48.8		52.0		52.5		49.5		44.9		39.7		37.3		43.1	
	S D	7.113		5.696		5.125		5.280		4.557		4.842		4.041		4.515		4.932		5.914		6.994		6.910		8.312	
	TOTAL OBS	742		682		783		746		755		785		797		810		780		796		726		731		9133	
6-08	MEAN	36.1		34.9		37.4		40.1		45.7		51.3		54.1		54.3		50.3		44.6		39.6		37.0		43.9	
	S D	7.267		5.985		5.267		4.985		4.535		4.657		3.938		4.250		5.001		6.168		7.098		6.959		8.936	
	TOTAL OBS	819		760		849		818		820		828		852		867		818		811		770		824		9836	
9-11	MEAN	37.0		36.7		40.5		43.4		48.8		54.2		57.0		57.5		54.0		47.9		41.6		38.1		46.6	
	S D	7.014		5.754		4.884		4.742		4.918		5.110		4.220		3.955		4.520		5.262		6.565		6.670		9.259	
	TOTAL OBS	859		794		890		869		873		867		893		908		857		834		790		856		10290	
12-14	MEAN	38.7		38.8		42.3		44.9		50.1		55.5		58.3		58.8		55.5		49.6		43.8		40.0		48.1	
	S D	6.475		5.661		4.969		5.151		5.129		5.285		4.268		4.147		4.668		5.034		6.023		6.194		9.032	
	TOTAL OBS	912		838		930		887		899		885		916		930		874		857		829		907		10664	
15-17	MEAN	38.3		38.9		42.2		44.8		50.1		55.7		58.5		58.9		55.3		49.1		43.1		39.3		47.8	
	S D	6.405		5.760		4.916		5.319		5.136		5.252		4.324		4.160		4.775		5.145		6.289		6.249		9.222	
	TOTAL OBS	915		837		922		853		863		862		892		905		853		838		825		909		10474	
18-20	MEAN	37.3		37.3		40.1		42.6		48.2		54.4		57.3		57.4		53.1		47.1		41.0		38.2		46.3	
	S D	6.514		5.618		4.994		5.280		4.954		5.213		4.214		4.222		4.835		5.236		6.366		6.492		9.246	
	TOTAL OBS	769		705		791		730		735		771		776		793		734		733		712		760		9009	
21-23	MEAN	36.8		36.3		38.7		40.6		45.5		51.9		54.9		55.2		51.2		45.8		39.8		37.6		44.4	
	S D	6.715		5.554		5.094		5.218		4.600		5.215		4.160		4.193		4.905		5.408		6.481		6.816		8.832	
	TOTAL OBS	747		684		734		826		616		666		675		689		637		655		685		738		8132	
ALL HOURS	MEAN	37.3		36.9		39.7		42.1		47.2		52.9		55.8		56.2		52.6		46.9		41.2		38.2		45.7	
	S D	6.828		5.879		5.419		5.644		5.450		5.652		4.779		4.792		5.303		5.774		6.731		6.655		9.112	
	TOTAL OBS	6181		5699		6347		5989		6061		6227		6376		6499		6102		6078		5815		6202		73576	

USAF ETAC FORM OCT 78 0-89-3 (OL A)

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# MEANS AND STANDARD DEVIATIONS

DEW-POINT TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

C35621 ALCONBURY RAF UK

73-83

STATION		YEARS												
STATION NAME		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
HRS. LST														
00-02	MEAN	34.5	33.5	34.4	35.8	40.6	46.3	50.2	51.2	47.4	42.6	35.9	34.6	41.3
	S.D.	6.956	6.119	6.105	6.247	5.194	5.953	4.817	4.769	5.440	6.111	6.984	6.967	8.803
	TOTAL OBS	418	399	448	480	500	563	575	597	549	554	478	477	6038
03-05	MEAN	32.6	32.3	34.2	35.6	40.4	46.2	49.7	50.3	47.2	42.5	36.4	34.2	40.4
	S.D.	8.006	6.264	6.131	6.118	5.299	5.774	4.462	4.931	5.438	6.585	7.707	7.451	9.028
	TOTAL OBS	742	682	783	746	755	785	797	810	780	796	726	731	9133
06-08	MEAN	32.5	32.1	34.8	36.8	42.3	47.7	51.2	51.7	47.8	42.0	36.3	33.8	40.9
	S.D.	8.134	6.473	6.246	5.872	5.290	5.620	4.342	4.678	5.533	6.947	7.837	7.553	9.460
	TOTAL OBS	819	760	849	818	820	828	852	867	818	811	770	824	9836
09-11	MEAN	33.2	33.6	36.8	38.1	43.0	48.3	51.7	52.3	49.3	44.2	37.8	34.8	42.1
	S.D.	7.784	6.297	6.117	5.968	6.244	6.276	5.177	5.077	5.486	6.137	7.371	7.260	9.312
	TOTAL OBS	859	794	890	869	873	867	893	908	857	834	790	856	10290
12-14	MEAN	34.3	34.7	37.1	37.9	42.7	48.4	51.6	51.7	48.8	44.3	39.1	36.0	42.3
	S.D.	7.331	6.376	6.704	6.674	6.636	6.206	5.367	5.446	6.348	6.393	7.267	6.945	9.049
	TOTAL OBS	912	838	930	887	899	885	916	930	874	857	829	977	10664
15-17	MEAN	34.1	34.7	36.7	37.3	42.5	48.4	51.5	51.4	48.4	44.0	38.6	35.6	41.9
	S.D.	7.314	6.579	6.765	6.797	6.557	6.057	5.452	5.452	6.013	6.510	7.425	6.910	9.122
	TOTAL OBS	915	837	922	853	863	862	892	905	853	838	825	979	10474
18-20	MEAN	33.4	33.9	36.1	36.8	42.2	48.4	51.6	51.6	48.0	43.3	37.0	34.8	41.5
	S.D.	7.363	6.272	6.398	6.561	5.912	5.977	5.080	5.187	5.677	6.214	7.243	7.115	9.212
	TOTAL OBS	769	705	791	730	735	771	776	793	734	733	712	760	9009
21-23	MEAN	33.0	33.2	35.5	36.3	41.2	47.7	50.9	51.4	47.5	42.6	36.1	34.3	40.6
	S.D.	7.583	6.133	6.314	6.214	5.448	6.026	4.860	4.831	5.595	6.205	7.138	7.400	9.191
	TOTAL OBS	747	684	734	606	616	666	675	689	637	655	685	738	8132
ALL HOURS	MEAN	33.4	33.5	35.8	37.0	42.0	47.8	51.1	51.5	48.1	43.3	37.3	34.8	41.4
	S.D.	7.622	6.399	6.459	6.368	5.985	6.035	5.012	5.103	5.715	6.464	7.483	7.236	9.189
	TOTAL OBS	6181	5699	6347	5989	6061	6227	6376	6499	6102	6078	5815	6202	73576



## RELATIVE HUMIDITY

PERIOD

JAN  
MONT

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JAN	00-02	100.0	100.0	100.0	100.0	99.5	97.8	81.6	44.1	15.6	79.1	418
	03-05	100.0	100.0	100.0	100.0	100.0	97.6	80.7	45.3	16.3	79.8	742
	06-08	100.0	100.0	100.0	100.0	100.0	99.0	80.1	44.7	14.8	79.6	819
	09-11	100.0	100.0	100.0	100.0	100.0	97.6	76.0	38.8	11.4	78.2	859
	12-14	100.0	100.0	100.0	100.0	99.3	90.4	65.6	31.5	8.9	75.2	912
	15-17	100.0	100.0	100.0	99.9	99.7	91.9	65.7	33.3	9.4	75.8	915
	18-20	100.0	100.0	100.0	100.0	99.9	94.9	71.3	40.4	13.8	77.9	769
	21-23	100.0	100.0	100.0	100.0	99.9	96.4	75.1	43.2	13.9	78.6	747
TOTALS		100.0	100.0	100.0	100.0	99.8	95.7	74.5	40.2	13.0	78.0	6181

USAFETAC      FORM 0-87.5 (OL A)  
115-44

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## RELATIVE HUMIDITY

035621  
STATION

ALCONBURY RAF UK  
STATION NAME

74-83

PERIOD

FEB  
MONTH

### CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
FEB	00-02	100.0	100.0	100.0	100.0	100.0	100.0	90.2	57.6	17.0	81.4	399
	03-05	100.0	100.0	100.0	100.0	100.0	100.0	93.8	62.8	20.4	83.3	682
	06-08	100.0	100.0	100.0	100.0	100.0	99.7	95.3	63.7	21.8	83.7	760
	09-11	100.0	100.0	100.0	100.0	100.0	98.6	88.5	56.2	17.7	81.7	794
	12-14	100.0	100.0	100.0	100.0	98.9	91.5	69.6	36.4	10.3	76.6	838
	15-17	100.0	100.0	100.0	100.0	99.0	92.4	67.4	36.9	7.9	76.2	837
	18-20	100.0	100.0	100.0	100.0	100.0	98.2	84.5	47.9	11.8	79.9	705
	21-23	100.0	100.0	100.0	100.0	100.0	99.9	89.5	54.2	13.2	81.6	684
TOTALS		100.0	100.0	100.0	100.0	99.7	97.5	84.9	52.0	14.1	80.6	5699

USAFETAC

FORM  
JUL 64

0-87-5 (OL A)

## RELATIVE HUMIDITY

**MAR**  
**MONTH**

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
MAR	00-02	100.0	100.0	100.0	100.0	100.0	95.8	84.6	63.2	21.0	82.3	448
	03-05	100.0	100.0	100.0	100.0	100.0	99.1	91.4	66.7	26.2	83.9	783
	06-08	100.0	100.0	100.0	100.0	100.0	98.5	91.8	69.3	27.8	84.2	849
	09-11	100.0	100.0	100.0	99.9	98.9	90.3	72.1	46.1	17.5	78.4	890
	12-14	100.0	100.0	99.9	98.1	90.6	73.2	54.7	28.8	9.4	71.1	930
	15-17	100.0	100.0	99.8	97.1	88.1	73.6	52.6	25.7	8.8	70.3	922
	18-20	100.0	100.0	100.0	99.5	96.8	87.2	69.2	44.4	14.2	77.1	791
	21-23	100.0	100.0	100.0	100.0	99.6	96.0	81.3	56.8	19.2	81.0	734
TOTALS		100.0	100.0	100.0	99.3	96.8	89.2	74.7	50.1	18.0	78.5	6347

USAFETAC FORM 0-87-5 (OL A)

## RELATIVE HUMIDITY

74-83

**PERIOD**

APR  
MONTH

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN								MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.	
		10%	20%	30%	40%	50%	60%	70%	80%			90%
APR	01-02	100.0	100.0	100.0	100.0	100.0	97.3	77.1	43.3	8.3	78.5	480
	03-05	100.0	100.0	100.0	100.0	100.0	99.7	87.0	56.0	16.8	81.7	746
	06-08	100.0	100.0	100.0	100.0	99.9	97.8	81.7	48.5	15.8	81.2	618
	09-11	100.0	100.0	100.0	99.9	92.3	75.8	49.3	21.4	6.0	70.2	869
	12-14	100.0	100.0	99.5	94.9	77.7	54.3	29.1	11.0	2.9	62.4	687
	15-17	100.0	100.0	99.2	92.1	73.5	49.2	27.1	9.5	2.2	61.0	853
	18-20	100.0	100.0	99.9	97.9	90.4	72.7	45.5	17.3	3.7	66.2	731
	21-23	100.0	100.0	100.0	100.0	99.2	89.8	64.9	33.7	6.6	74.8	626
TOTALS		100.0	100.0	99.8	98.1	91.6	79.4	57.7	29.7	5.8	72.1	5209

USAFETAC FORM 0-87-5 (OL A)

AD A146 913

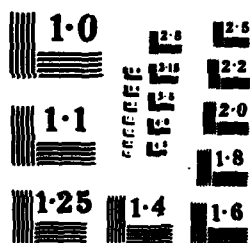
ALCONBURY RAF UNITED KINGDOM REVISED UNIFORM SUMMARY OF  
SURFACE WEATHER O..(U) AIR FORCE ENVIRONMENTAL  
TECHNICAL APPLICATIONS CENTER SCOTT A.. APR 84  
UNCLASSIFIED USAF/TAC/DS 84/014 SRI AD-ER50 743

F/G 4/2

NL

5/5

END  
12-84



## RELATIVE HUMIDITY

PERIOD

MAY  
MONTH

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
MAY	00-02	100.0	100.0	100.0	100.0	100.0	97.2	85.0	44.8	11.8	79.5	500
	03-05	100.0	100.0	100.0	100.0	100.0	99.3	92.3	58.7	19.7	82.6	755
	06-08	100.0	100.0	100.0	100.0	99.5	95.2	82.0	42.2	13.5	76.8	820
	09-11	100.0	100.0	100.0	96.8	86.6	65.6	41.8	16.4	3.3	66.3	873
	12-14	100.0	100.0	98.6	89.8	72.6	44.6	26.6	8.0	1.6	59.5	899
	15-17	100.0	100.0	98.5	88.8	70.2	46.8	24.6	6.8	1.4	59.0	863
	18-20	100.0	100.0	100.0	96.9	85.3	67.2	42.3	13.6	2.0	66.0	735
	21-23	100.0	100.0	100.0	99.8	92.4	89.9	69.0	25.6	4.7	74.0	616
TOTALS		100.0	100.0	99.6	96.5	89.1	75.7	58.0	27.0	7.3	70.7	6261

USAFETAC FORM 0-87-5 (OL A)

## RELATIVE HUMIDITY

PERIOD

**JUN**  
**MONTH**

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JUN	00-02	100.0	100.0	100.0	100.0	99.5	94.8	83.3	40.1	11.9	78.1	563
	03-05	100.0	100.0	100.0	100.0	100.0	99.0	91.7	55.3	18.1	82.1	785
	06-08	100.0	100.0	100.0	99.9	98.9	92.4	74.6	31.4	10.7	76.2	828
	09-11	100.0	100.0	99.8	97.3	86.6	59.1	33.0	10.4	2.8	64.4	867
	12-14	100.0	99.6	98.4	91.4	71.6	41.6	20.5	5.4	1.7	58.4	885
	15-17	100.0	100.0	97.8	88.9	69.8	38.6	21.0	6.6	2.3	58.1	862
	18-20	100.0	100.0	99.4	94.9	82.9	59.1	35.1	11.2	3.5	64.1	771
	21-23	100.0	100.0	100.0	99.8	97.7	85.1	65.0	24.8	7.4	73.1	666
TOTALS		100.0	100.0	99.4	96.5	88.4	71.2	53.0	23.2	7.2	69.3	6227



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# RELATIVE HUMIDITY

035621  
STATION

ALCONBURY RAF UK  
STATION NAME

73-82

PERIOD

JUL  
MONTH

## CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JUL	00-02	100.0	100.0	100.0	100.0	99.7	96.5	87.8	45.4	11.8	79.8	575
	03-05	100.0	100.0	100.0	100.0	100.0	99.9	96.6	62.2	19.3	83.7	797
	06-08	100.0	100.0	100.0	100.0	99.9	96.4	83.6	42.0	9.9	78.9	852
	09-11	100.0	100.0	99.7	98.0	91.9	67.3	39.3	12.2	2.5	66.5	893
	12-14	100.0	99.5	97.7	93.7	77.1	44.9	22.8	7.1	1.3	59.7	916
	15-17	100.0	98.9	97.0	92.6	69.7	41.9	21.7	6.2	1.7	58.4	892
	18-20	100.0	99.7	98.2	95.0	85.6	60.1	36.2	9.9	2.3	64.3	776
	21-23	100.0	100.0	100.0	99.0	96.7	89.3	67.6	23.4	5.0	73.6	675
TOTALS		100.0	99.8	99.1	97.3	90.1	74.5	57.0	26.1	6.7	70.6	6376

## RELATIVE HUMIDITY

**C35621**  
STATION

ALCONBURY RAF UK

**73-A2**

AUG

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
AUG	00-02	100.0	100.0	100.0	100.0	99.8	97.2	89.3	85.1	18.1	80.2	597
	03-05	100.0	100.0	100.0	100.0	100.0	100.0	97.9	61.5	20.7	83.9	810
	06-08	100.0	100.0	100.0	100.0	100.0	99.5	90.0	49.3	18.1	81.5	867
	09-11	100.0	100.0	99.9	98.6	90.4	65.3	38.5	14.4	4.3	66.6	908
	12-14	100.0	100.0	98.2	90.4	65.3	35.1	21.4	6.9	1.8	57.5	930
	15-17	100.0	100.0	97.0	87.5	58.2	34.6	19.3	8.4	1.9	56.3	905
	18-20	100.0	100.0	99.5	94.7	81.7	55.9	34.9	12.9	3.7	63.8	795
	21-23	100.0	100.0	100.0	100.0	97.5	88.5	66.2	27.6	7.4	74.1	689
TOTALS		100.0	100.0	99.3	96.4	86.6	72.0	57.2	28.3	9.0	70.5	6892

**USAFETAC**

**FORM**  
**MS-64**

0-87-5 (DL A)

## RELATIVE HUMIDITY

PERIOD

SEP  
MONTH

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
SEP	00-02	100.0	100.0	100.0	100.0	100.0	99.8	92.2	48.1	8.2	80.6	589
	03-05	100.0	100.0	100.0	100.0	100.0	99.7	97.8	61.7	17.2	83.6	780
	06-08	100.0	100.0	100.0	100.0	100.0	99.5	95.2	57.5	15.4	82.4	818
	09-11	100.0	100.0	100.0	100.0	96.7	77.2	49.5	18.3	4.4	70.0	857
	12-14	100.0	100.0	99.8	97.5	78.0	41.8	23.9	6.6	.9	60.3	874
	15-17	100.0	100.0	99.4	96.2	75.6	41.3	20.4	4.7	.7	59.4	853
	18-20	100.0	100.0	100.0	99.7	95.6	72.5	43.7	11.9	1.9	67.8	734
	21-23	100.0	100.0	100.0	100.0	99.7	95.6	76.3	26.5	2.5	75.2	637
TOTALS		100.0	100.0	99.9	99.2	93.2	78.4	62.4	29.4	6.4	72.4	6102

USAFETAC      FORM 0-87-5 (OL A)

## RELATIVE HUMIDITY

PERIOD:

NOV  
MONTH

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
NOV	00-02	100.0	100.0	100.0	100.0	100.0	99.8	85.8	44.1	11.7	79.7	478
	03-05	100.0	100.0	100.0	100.0	100.0	99.0	85.8	47.5	18.7	80.0	726
	06-08	100.0	100.0	100.0	100.0	100.0	98.8	87.5	49.7	9.9	80.3	770
	09-11	100.0	100.0	100.0	100.0	100.0	96.3	75.3	36.3	7.5	77.2	790
	12-14	100.0	100.0	100.0	99.9	97.1	84.7	57.2	22.6	3.9	72.2	829
	15-17	100.0	100.0	100.0	100.0	99.0	88.6	62.7	22.2	5.3	73.4	825
	18-20	100.0	100.0	100.0	100.0	99.9	95.5	73.7	29.4	4.8	76.1	712
	21-23	100.0	100.0	100.0	100.0	100.0	97.8	80.1	35.2	7.6	77.8	685
TOTALS		100.0	100.0	100.0	100.0	99.5	95.1	76.0	35.9	7.7	77.1	5015

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# RELATIVE HUMIDITY

035621  
STATION

ALCONBURY RAF UK  
STATION NAME

73-82

PERIOD

OCT  
MONTH

## CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
OCT	00-02	100.0	100.0	100.0	100.0	100.0	99.3	93.9	60.3	18.8	82.3	558
	03-05	100.0	100.0	100.0	100.0	100.0	99.2	95.4	65.2	24.5	84.1	796
	06-08	100.0	100.0	100.0	100.0	100.0	98.6	93.1	59.2	21.2	83.0	811
	09-11	100.0	100.0	100.0	100.0	99.8	93.4	75.2	33.2	9.8	76.6	834
	12-14	100.0	100.0	100.0	100.0	95.2	72.3	43.6	14.5	3.6	68.2	857
	15-17	100.0	100.0	100.0	100.0	95.7	75.5	50.2	15.8	3.3	69.3	838
	18-20	100.0	100.0	100.0	100.0	99.9	96.2	75.9	28.6	6.3	76.2	733
	21-23	100.0	100.0	100.0	100.0	100.0	98.8	88.5	43.7	10.2	79.7	655
TOTALS		100.0	100.0	100.0	100.0	98.8	91.7	77.0	40.1	11.7	77.9	6078

USAFETAC

FORM  
AUG 64

0-87-5 (OL A)

## RELATIVE HUMIDITY

~~DEC~~  
MONTH

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
DEC	00-22	100.0	100.0	100.0	100.0	100.0	98.3	85.7	54.5	15.9	81.0	877
	03-05	100.0	100.0	100.0	100.0	100.0	99.2	87.3	55.4	18.2	81.5	731
	06-08	100.0	100.0	100.0	100.0	100.0	99.4	87.9	51.9	17.2	81.1	829
	09-11	100.0	100.0	100.0	100.0	99.8	98.1	83.6	47.9	13.8	80.1	856
	12-14	100.0	100.0	100.0	100.0	99.3	93.5	73.4	38.0	10.3	77.0	907
	15-17	100.0	100.0	100.0	100.0	99.7	95.9	77.3	42.9	11.7	78.4	909
	18-20	100.0	100.0	100.0	100.0	100.0	97.8	82.9	48.7	13.9	79.9	763
	21-23	100.0	100.0	100.0	100.0	100.0	98.6	84.6	50.0	17.2	80.6	738
TOTALS		100.0	100.0	100.0	100.0	99.9	97.6	82.8	48.7	14.8	80.0	6222

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## RELATIVE HUMIDITY

035621  
STATION

ALCONBURY RAF UK

STATION NAME

73-83

PERIOD

ALL  
MONTH

### CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JAN	ALL	100.0	100.0	100.0	100.0	99.8	95.7	74.5	40.2	13.0	78.0	6181
FEB		100.0	100.0	100.0	100.0	99.7	97.5	84.9	52.1	14.1	80.6	5699
MAR		100.0	100.0	100.0	99.3	96.8	89.2	74.7	50.1	18.0	78.5	6347
APR		100.0	100.0	99.8	98.1	91.6	79.6	57.7	29.7	7.8	72.1	5989
MAY		100.0	100.0	99.6	96.5	89.1	75.7	58.0	27.0	7.3	70.7	6061
JUN		100.0	100.0	99.4	96.5	88.4	71.2	53.0	23.2	7.2	69.3	6227
JUL		100.0	99.8	99.1	97.3	90.1	74.5	57.0	26.1	6.7	70.6	6376
AUG		100.0	100.0	99.3	96.4	86.6	72.0	57.2	28.3	9.0	70.5	6499
SEP		100.0	100.0	99.9	99.2	93.2	78.4	62.4	29.4	6.4	72.4	6102
OCT		100.0	100.0	100.0	100.0	98.8	91.7	77.0	40.1	11.7	77.4	6078
NOV		100.0	100.0	100.0	100.0	99.5	95.1	76.0	35.9	7.7	77.1	5815
DEC		100.0	100.0	100.0	100.0	99.9	97.6	82.8	48.7	14.8	80.0	6202
TOTALS		100.0	100.0	99.8	98.6	94.5	84.9	67.9	35.9	10.3	74.8	73576

U S AIR FORCE  
ENVIRONMENTAL TECHNICAL  
APPLICATIONS CENTER

PART F

PRESSURE SUMMARY

Presented in this part are two tables giving the means, standard deviations, and total number of observations of station pressure and sea-level pressure by month and annual for the local hourly observations corresponding to the eight 3-hourly synoptic times GCT. The same computations are also provided at the bottom of the page for all hours combined. All years of data available are combined in both of these tables, although the overall period is limited by service as indicated below.

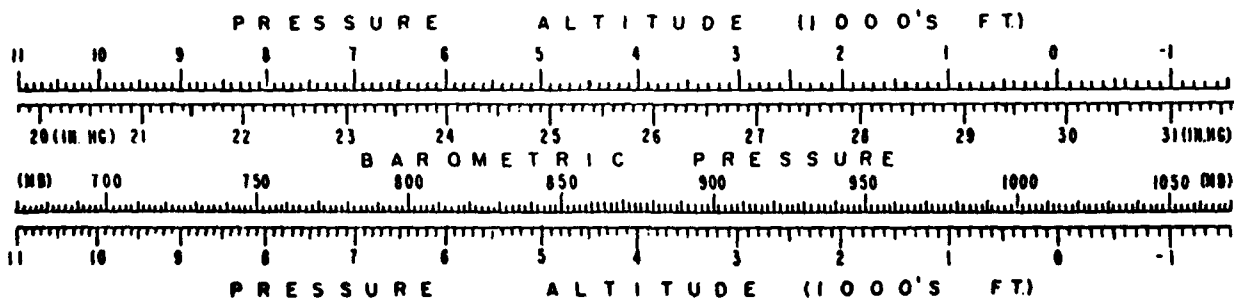
NOTES: Station pressure not reported for all services until late in 1945.

Station pressure reported only at 6-hourly times for Air Force stations from Jan 64 - Jul 65.

METAR stations do not report Sea-level pressure for the period Jan 68 - Dec 70.

1. Station pressure is presented in the table in inches of mercury.
2. Sea-level pressure is presented in millibars. DATA NOT AVAILABLE

Provided below is a scale to convert station pressure values in inches of mercury or millibars to pressure-altitude in 1000's of feet. This scale is an enlarged model of the pressure-altitude scale in the Smithsonian Meteorological Tables.





GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# MEANS AND STANDARD DEVIATIONS

STATION PRESSURE IN INCHES HG FROM HOURLY OBSERVATIONS

035621 ALCONBURY RAF UK

73-83

STATION		STATION NAME						YEARS						
HRS (LST)		JAN	FEB	MAR	APR	MAY	JUN		AUG	SEP	OCT	NOV	DEC	ANNUAL
00	MEAN	29.676	29.735	29.768	29.849	29.814	29.877	01	29.854	29.757	29.746	29.726	29.783	29.783
	S D	.371	.438	.293	.257	.236	.211	92	.202	.294	.322	.354	.420	.312
	TOTAL OBS	128	122	124	120	126	15	159	164	153	162	152	149	1712
03	MEAN	29.727	29.750	29.666	29.816	29.757	29.826	5	29.821	29.772	29.712	29.755	29.676	29.757
	S D	.389	.410	.340	.289	.254	.219	196	.214	.275	.322	.349	.459	.321
	TOTAL OBS	247	227	259	243	247	257	259	263	253	261	242	248	3006
06	MEAN	29.714	29.749	29.657	29.816	29.767	29.825	29.809	29.825	29.780	29.711	29.758	29.654	29.756
	S D	.400	.408	.341	.288	.257	.224	.200	.210	.274	.324	.343	.456	.323
	TOTAL OBS	266	248	279	272	275	276	284	288	277	280	259	269	3273
09	MEAN	29.738	29.772	29.674	29.828	29.778	29.833	29.816	29.837	29.795	29.727	29.781	29.677	29.771
	S D	.400	.406	.344	.288	.260	.226	.200	.211	.286	.327	.347	.447	.324
	TOTAL OBS	279	257	285	273	273	277	283	289	279	279	263	278	3315
12	MEAN	29.744	29.771	29.671	29.819	29.768	29.824	29.816	29.830	29.788	29.723	29.785	29.668	29.767
	S D	.406	.407	.342	.285	.256	.224	.197	.202	.280	.322	.351	.440	.323
	TOTAL OBS	302	280	310	297	300	295	305	310	296	297	284	302	3578
15	MEAN	29.729	29.744	29.653	29.800	29.758	29.811	29.807	29.815	29.770	29.706	29.763	29.658	29.751
	S D	.404	.404	.337	.281	.252	.219	.202	.195	.272	.317	.347	.436	.319
	TOTAL OBS	305	279	310	295	299	295	306	310	296	297	281	303	3576
18	MEAN	29.724	29.757	29.655	29.810	29.767	29.811	29.789	29.804	29.769	29.729	29.767	29.673	29.754
	S D	.408	.405	.343	.278	.244	.214	.182	.198	.269	.318	.348	.443	.320
	TOTAL OBS	270	249	274	245	246	257	259	265	250	250	254	266	3085
21	MEAN	29.728	29.769	29.671	29.837	29.788	29.830	29.812	29.827	29.793	29.737	29.778	29.685	29.772
	S D	.395	.403	.348	.277	.243	.216	.183	.202	.274	.322	.353	.460	.320
	TOTAL OBS	249	228	258	242	244	257	257	263	242	241	229	246	2956
ALL HOURS	MEAN	29.726	29.757	29.670	29.820	29.772	29.827	29.807	29.825	29.779	29.722	29.766	29.678	29.763
	S D	.399	.408	.340	.282	.252	.221	.194	.205	.277	.322	.348	.446	.321
	TOTAL OBS	2046	1890	2099	1987	2010	2067	2112	2152	2046	2067	1964	2061	24503

END

DATE

FILMED

12-84